HOME OWNERS' CATALOGS

A GUIDE
TO THE SELECTION OF
Building Materials
Equipment and
Furnishings

F. W. DODGE CORPORATION

FOREWORD

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HOME OWNERS' CATALOGS is sent to you in the belief that it will help you derive greater satisfaction from your new home. You will find it of real assistance as a reference work and buying guide.

Building a home is more than a romantic experience. Intensely practical aspects are involved, and the satisfaction you derive over the years will depend largely upon the success with which you meet the practical phases of house construction. Of these no others are so important as Design and Plan. Design and Plan must be adjusted to your Desires, your Needs, and your Budget. The architect, with his special training and experience, is better able to handle this phase of the home building operation than anyone else. The builder, too, will serve better when his work follows a carefully worked out solution to the home owner's particular problem.

Nevertheless, no one is as interested in your house as you are; you are going to pay for it; you are going to live in it. Once a material or an equipment goes in, it is there to stay. Once money is invested in furnishings, they are not to be discarded lightly. In taking care of this practical aspect of home building, nothing is more important than information.

HOME OWNERS' CATALOGS is a mine of current, reliable information. In it you will find descriptions of products that will increase the comfort and convenience of your home, enhance its appearance, make it less costly to maintain, and add to its value as an investment. You will find products that are new to you, and desirable suggestions that may not have occurred to you. You will probably add HOME OWNERS' CATALOGS to your library and consult it from time to time, as you redecorate or add to your home.

And so, with their compliments, a group of leading firms has sent HOME OWNERS' CATALOGS to you through the F. W. Dodge Corporation. They would like to know that you have received it and are making use of it. An expression of your opinion of HOME OWNERS' CATALOGS on the post card

at the end of this Foreword will be greatly appreciated and will help to increase the value of future editions to other home owners.

If you are in need of additional information relating to any problem in building or furnishing your new home, write our Home Owners' Advisory Service. As a publishing and service organization, we have been intimately associated with the building industry for more than forty years. It will be a pleasure to assist you and you will incur no obligation whatever by asking our experts to help you with your problems.

Your friends who plan to build homes for their own occupancy, or who are planning major alterations of their present homes involving most of the principal building trades, may secure a copy of HOME OWNERS' CATALOGS without cost, providing they comply with the necessary requirements. Simply have them fill out completely one of the application blanks that you will find at the back of this volume and send it to us. HOME OWNERS' CATALOGS costs a great deal to publish. It will be sent only to those who we find, upon investigation, are going to build, or who are just starting to build new homes for their own occupancy.

F. W. DODGE CORPORATION
119 West Fortieth Street
New York, N. Y.

INDEX OF FIRMS WHOSE CATALOGS ARE IN THIS VOLUME

NOTE: All catalogs in this volume are arranged alphabetically according to firm name. In some instances the firm name does not appear on the front cover of the catalog. In such cases the names will invariably be found on the rear cover or inside pages.

Athey Company

Bryant Heater Co.

Burnham Boiler Corp.

Carey, Philip, Co.

Celotex Co.

Chase Brass & Copper Co.

Congoleum-Nairn, Inc.

Crane Co.

Detroit Steel Products Co.

Florida Louisiana Red Cypress Co.

Fox Furnace Co.

Gar Wood Industries, Inc.

Hires Turner Glass Co.

Johns-Manville Corp.

Kerner Incinerator Co.

Libbey-Owens-Ford Glass Co.

Lord and Burnham Co.

Ludowici-Celadon Co.

Masonite Corp.

McKinney Manufacturing Co.

Modine Mfg. Co.

Philadelphia Carpet Co.

Pittsburgh Plate Glass Co.

Roberts & Mander Stove Co.

Rolscreen Company

Wayne Iron Works

INDEX OF PRODUCTS

NOTE: To use this index it should be borne in mind that all catalogs in this volume are ARRANGED ALPHABETICALLY BY FIRM NAME. Therefore, to locate information on a given product as listed in this index, it is necessary only to note the name or the names of the firms given under the product in question, and then turn to the catalogs of those firms as they appear in alphabetical sequence.* Product trade names are listed in italics. The noun method has been used as the basis for compilation of this index. In short, look for Screens, not Window Screens; for Heaters, Water, not Water Heaters; Shingles, not Wood Shingles. At the same time, for your convenience, we have followed common usage in indexing some products, such as Air Conditioning Apparatus, where the noun covers a wide variety of products. At the same time cross reference is used to aid you in finding information you seek. In consulting this index try the noun method first, look for Cabinets, Kitchen, rather than for Kitchen Cabinets.

Air Conditioning Apparatus
Bryant Heater Co.
Dualator
Fox Furnace Co.
Sunbeam
Gar Wood Industries, Inc.
Tempered-Aire
Modine Mfg. Co.
Humiditioner

Air Valves
See Valves, Radiator

Arbors
Florida Louisiana Red Cypress Co.
Arrow Brand
Wayne Iron Works

Architectural Mirrors
Hires Turner Glass Co.
Light House
Libbey-Owens-Ford Glass Co.
L-O-F
Pittsburgh Plate Glass Co.

Basement Windows
See Windows, Basement

Bathroom Accessories
Bath Mat
Crane Co.
Bath Rack
Crane Co.
Cabinets—Medicine
Crane Co.
Holders—Soap, Toilet Paper, Tooth Brush, Tumbler, etc.
Crane Co.
Hooks—Robe
Crane Co.
Soap Dish
Crane Co.
Towel Bars
Crane Co.

Bathtubs
Crane Co.
Corwith
Doris
Marshall
Tarnia
Verna

Blinds
Venetian
Rolscreen Company
Pella Venetian Blinds

Boards
Asbestos
Carey, Philip, Co.
Johns-Manville Corp.
Flexboard
Insulating Fibre
Celotex Co.
Johns-Manville Corp.
Masonite Corp.
Tiled
Carey, Philip, Co.
Celotex Co.
Johns-Manville Corp.
Flexboard
Masonite Corp.
Wood
Florida Louisiana Red Cypress Co.
Arrow Brand

Boilers
Heating—Coal Fired
Burnham Boiler Corp.
Crane Co.
Heating—Coke Fired
Crane Co.
Heating—Gas Fired
Bryant Heater Co.
Burnham Boiler Corp.
Crane Co.
Basmor
Heating—Oil Fired
Burnham Boiler Corp.
Crane Co.
Gar Wood Industries, Inc.

Boxes
Mail
McKinney Manufacturing Co.

Brackets
Wall Lighting
See Fixtures, Lighting

Brick
Siding
See Siding, Brick

Broadloom Carpet
See Carpets, Seamless

Building
Board
See Boards and Wallboard
Paper
See Paper, Building

Burner Boilers
Combination
See Boilers, Heating

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Cabinets
Bathroom
Crane Co.
Medicine
Crane Co.
Radiator
See Enclosures, Radiator
Wall
Crane Co.

Cabins
Celotex Co.

Carpets
Seamless
Philadelphia Carpet Co., The
Cloverdale

Casement
Windows
See Windows, Casement

Ceilings
Beamed
Florida Louisiana Red Cypress Co.
Arrow Brand
Fibre Board
Celotex Co.
Johns-Manville Corp.
Glass
Hires Turner Glass Co.
Pittsburgh Plate Glass Co.

Chain Link Fences
See Fences, Metal

Chandeliers
See Fixtures, Lighting

Clapboards
See Siding

Closets
Water
See Toilets

Cloth
Screen
See Screen Cloth

Cold Frames
Lord and Burnham Co.

Columns
Wood
Florida Louisiana Red Cypress Co.
Arrow Brand

Compartments
Shower Bath
See Shower Baths

Conservatories
Lord and Burnham Co.

Convectors
Copper
Modine Mfg. Co.

Cornices
Wood
Florida Louisiana Red Cypress Co.
Arrow Brand

Coverings
Floor—Linoleum
Congoleum-Nairn Inc.
Sealex
Floor—Linoleum—Designed to Order
Congoleum-Nairn Inc.
Linsignia
Sealex
Floor—Woven
Philadelphia Carpet Co., The
Cloverdale
Pipe
See Insulation, Pipe
Shelf—Linoleum
Congoleum-Nairn Inc.
Sealex
Stair Tread—Linoleum
Congoleum-Nairn Inc.
Sealex
Table Top—Linoleum
Congoleum-Nairn Inc.
Sealex
Wall—Glass
Hires Turner Glass Co.
Libbey-Owens-Ford Glass Co.
L-O-F
Pittsburgh Plate Glass Co.
Carrara
Wall—Linoleum
Congoleum-Nairn Inc.
Sealex
Wall—Linoleum—Designed to Order
Congoleum-Nairn Inc.
Sealex

Covers
Radiator
See Enclosures, Radiator

Cypress
Lumber
See Lumber, Cypress

Dampproofing
Carey, Philip, Co.
Johns-Manville Corp.

Dental Lavatory
Crane Co.
Dentrix

Door
Bottoms—Weatherstrip
Athey Company

Doors
Casement
Detroit Steel Products Co.
Garage
McKinney Manufacturing Co.
Screen
See Screens, Insect

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Downspouts
Copper
Chase Brass & Copper Co.

Enamel
Pittsburgh Plate Glass Co.
Banzai
Florhide
Waterspar

Enclosures
Glass
Lord and Burnham Co.
Radiator
Modine Mfg. Co.
Tennis Court
Wayne Iron Works

English Hurdle Fences
See Fences

Entrance Gates
See Gates

Expansion
Joints—Concrete
See Joints, Expansion

Farm Fences
See Fences

Faucets
Lavatory
Crane Co.
Improved Agilis
Improved Telsa
Mixing
Crane Co.
Agilis
Rival
Sink
Crane Co.
Improved Agilis
Improved Telsa
Rival

Fences
Metal
Wayne Iron Works
Wood
Florida Louisiana Red Cypress Co.
Arrow Brand

Fireplaces
See Mantels

Fixtures
Lighting
Chase Brass & Copper Co.
McKinney Manufacturing Co.

Flange
Vent Pipe—Copper
Chase Brass & Copper Co.

Flashings
Copper
Chase Brass & Copper Co.

Floor
Coverings
See Coverings, Floor; *See also* Specific Item

Flooring
Linoleum
Congoleum-Nairn Inc.
Sealex
Tile—Asphalt
Johns-Manville Corp.
Wood
Florida Louisiana Red Cypress Co.
Arrow Brand

Frames
Door and Window—Glass
Libbey-Owens-Ford Glass Co.
L-O-F
Pittsburgh Plate Glass Co.
Door and Window—Wood
Florida Louisiana Red Cypress Co.
Arrow Brand
Screen Window—Wood
Florida Louisiana Red Cypress Co.
Arrow Brand

French Doors
See Doors, Casement

Furnaces
Warm Air
Gar Wood Industries, Inc.
Tempered-Aire

Furniture
Lawn
Florida Louisiana Red Cypress Co.
Arrow Brand

Garage
Doors
See Doors, Garage

Garbage
Incinerators
See Incinerators, Garbage
Receivers
See Receivers, Garbage

Garden
Furniture
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Rooms
Lord and Burnham Co.

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Gates
Metal
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Glass
Carved, Etched, Ground, Embossed
Hires Turner Glass Co.
Libbey-Owens-Ford Glass Co.
L-O-F
Pittsburgh Plate Glass Co.
Colored
Hires Turner Glass Co.
Pittsburgh Plate Glass Co.
Curtains
See Curtains, Window
Double Glazing
Libbey-Owens-Ford Glass Co.
L-O-F
Pittsburgh Plate Glass Co.
Figured
Hires Turner Glass Co.
Libbey-Owens-Ford Glass Co.
L-O-F
Pittsburgh Plate Glass Co.
Greenhouse
Libbey-Owens-Ford Glass Co.
L-O-F
Heat Loss Reducing
Hires Turner Glass Co.
Mirrors
Hires Turner Glass Co.
Libbey-Owens-Ford Glass Co.
L-O-F
Pittsburgh Plate Glass Co.
Obscuring and Diffusing
Hires Turner Glass Co.
Pittsburgh Plate Glass Co.
Plate
Hires Turner Glass Co.
Libbey-Owens-Ford Glass Co.
L-O-F
Pittsburgh Plate Glass Co.
Vista
Water White
Safety
Hires Turner Glass Co.
Libbey-Owens-Ford Glass Co.
L-O-F
Structural
Hires Turner Glass Co.
Pittsburgh Plate Glass Co.
Carrara
Ultra-Violet Ray—Non-Intercepting
Hires Turner Glass Co.
Window
Hires Turner Glass Co.
Libbey-Owens-Ford Glass Co.
L-O-F
Pittsburgh Plate Glass Co.
Pennvernon

Glass—*Continued*
Wire
Hires Turner Glass Co.
Libbey-Owens-Ford Glass Co.
L-O-F

Greenhouses
Lord and Burnham Co.

Guards
Tree—Metal
Wayne Iron Works
Window—Woven Wire
Wayne Iron Works

Gutters
Copper
Chase Brass & Copper Co.

Hangers
Gutter—Copper
Chase Brass & Copper Co.

Hardware
Finish
McKinney Manufacturing Co.
Alhambra
Bedford
Curley Lock
Dorchester
Etruscan
Heart
Tulip
Warwick
Garage Door
McKinney Manufacturing Co.

Heads
Downspout—Copper
Chase Brass & Copper Co.

Health Glass
Hires Turner Glass Co.

Heaters
Unit
Burnham Boiler Corp.
Water—Coal Fired
Burnham Boiler Corp.
Water—Combined with Heating Boiler
Burnham Boiler Corp.
Water—Gas Fired
Burnham Boiler Corp.
Crane Co.
Keystone
Superior
Water—Oil Fired
Burnham Boiler Corp.
Gar Wood Industries, Inc.

Heating Systems
See also Air Conditioning Apparatus
Fittings for
Burnham Boiler Corp.
Crane Co.
Hot Water
Crane Co.

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Crane Co.
Toilet Paper
Crane Co.
Tooth Brush
Crane Co.
Tumbler
Crane Co.

Hooks
Robe
Crane Co.

Hot Beds
Lord and Burnham Co.

Hot Water
Heating
See Heating Systems

Humidifiers
Built-in
Bryant Heater Co.
Modine Mfg. Co.
Humiditioner

Incinerators
Garbage or Waste
Kerner Incinerator Co.
Kernerator

Insulation
Boiler
Carey, Philip, Co.
Careycel Asbestos Blocks
Johns-Manville Corp.
Asbestocel
Floor
Celotex Co.
Johns-Manville Corp.
Rock Wool
Pipe
Carey, Philip, Co.
Careycel
Perfecto
Johns-Manville Corp.
Asbestocel
Roof
Celotex Co.
Johns-Manville Corp.
Rock Wool
Wall
Celotex Co.
Johns-Manville Corp.
Rock Wool
Water Heater Tank
Carey, Philip, Co.
Johns-Manville Corp.
Asbestocel

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Ornaments
See Ornamental Metal Work

Joints
Expansion—Concrete Work
Carey, Philip, Co.
Elastite

Joists
Floor—Wood
Florida Louisiana Red Cypress Co.

Kitchen
Sinks
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Lamps
Floor and Table
Chase Brass & Copper Co.

Lanterns
See Fixtures, Lighting

Lath
Asbestos
Carey, Philip, Co.
Fibre
Celotex Co.
Johns-Manville Corp.
Insulating Fibre
Celotex Co.
Johns-Manville Corp.

Laundry Tubs
Crane Co.

Lavatories
Crane Co.
Colorado
Compeer
Corwith
Cromwell
Hermitage
Norfolk
Norwich
Sterling

Lawn
Fences
See Fences
Furniture
See Furniture, Lawn

Leaders
Copper
Chase Brass & Copper Co.

Lighting Fixtures
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Linoleum
Congoleum-Nairn Inc.
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Florida Louisiana Red Cypress Co.
Arrow Brand

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McKinney Manufacturing Co.

Mantels
Wood
Florida Louisiana Red Cypress Co.
Arrow Brand

Mats
Bath
Crane Co.

Millwork
Florida Louisiana Red Cypress Co.
Arrow Brand

Mirrors
Hires Turner Glass Co.
Light House
Libbey-Owens-Ford Glass Co.
L-O-F
Pittsburgh Plate Glass Co.
Colored
Pittsburgh Plate Glass Co.
Metal Backed
Hires Turner Glass Co.
Light House
Libbey-Owens-Ford Glass Co.
L-O-F
Pittsburgh Plate Glass Co.

Mixing Faucets
See Faucets

Mouldings
Fibre
Celotex Co.
Johns-Manville Corp.
Wood
Florida Louisiana Red Cypress Co.
Arrow Brand

Oil Burners
Gar Wood Industries, Inc.

Ornamental Gates
See Gates

Ornamental Metal Work
Wayne Iron Works

Ornaments
Fibre
Celotex Co.

Paint
Pittsburgh Plate Glass Co.
Patton's Sun-Proof
Wallhide

Paneling
Fibre Board
Celotex Co.
Johns-Manville Corp.
Glass
Hires Turner Glass Co.
Libbey-Owens-Ford Glass Co.
L-O-F
Pittsburgh Plate Glass Co.
Wood
Florida Louisiana Red Cypress Co.
Arrow Brand

Pans
Dormer Window—Copper
Chase Brass & Copper Co.

Paper
Building
Carey, Philip, Co.
Johns-Manville Corp.

Partitions
Interior
Carey, Philip, Co.
Asbesto-Lath
Celotex Co.
Johns-Manville Corp.
Masonite Corp.
Presdwood

Pergolas
Florida Louisiana Red Cypress Co.
Arrow Brand

Picket Fences
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Pipe
Brass
Chase Brass & Copper Co.
Copper
Chase Brass & Copper Co.
Coverings
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Fittings
Chase Brass & Copper Co.
Crane Co.

Planks
Fibre
Celotex Co.
Johns-Manville Corp.
Wood
Florida Louisiana Red Cypress Co.

Plate Glass
Hires Turner Glass Co.
Libbey-Owens-Ford Glass Co.
L-O-F
Pittsburgh Plate Glass Co.
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Crane Co.
Rival
Securo
Telsa Jr.
Fixtures
Crane Co.

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Swimming
Lord and Burnham Co.
Swimming—Glass Enclosures for
Lord and Burnham Co.

Porches
Sun
Lord and Burnham Co.

Posts
Wood
Florida Louisiana Red Cypress Co.
Arrow Brand

Primer
Paint
Pittsburgh Plate Glass Co.
Wallhide

Racks
Bath
Crane Co.
Footsure

Radiator
Shields
Crane Co.
Valves
See Valves

Radiators
Cast Iron
Burnham Boiler Corp.
Slenderized
Crane Co.
Concealed
Crane Co.
Modine Mfg. Co.
Copper
Modine Mfg. Co.

Rail Fences
See Fences, Wood

Railings
Porch—Ornamental Iron
Wayne Iron Works
Porch—Wood
Florida Louisiana Red Cypress Co.
Arrow Brand
Stair—Ornamental Iron
Wayne Iron Works
Stair—Wood
Florida Louisiana Red Cypress Co.
Arrow Brand

Ranges
Combination—Cooking—Kitchen Heating
Roberts & Mander Stove Co.
Gas
Roberts & Mander Stove Co.
Quality
Petroleum Gas (Bottled, Liquefied)
Roberts & Mander Stove Co.

Receivers
Garbage—Sink
Crane Co.
Kitchen Katch-all
Mail
McKinney Manufacturing Co.

Ridge Rolls
Copper
Chase Brass & Copper Co.

Rolling Screens
See Screens, Insect—Rolling

Roofing
(*See also* Shingles)
Built-up
Carey, Philip, Co.
Johns-Manville Corp.
Roll
Carey, Philip, Co.
Johns-Manville Corp.
Tile
Ludowici-Celadon Co.

Roofs
Glass
Lord and Burnham Co.

Rooms
Garden
Lord and Burnham Co.
Glass Enclosed
Lord and Burnham Co.

Rugs
Broadloom
Philadelphia Carpet Co., The
Cloverdale

Rumson Board Fences
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Safety Glass
Hires Turner Glass Co.

Sash
Hot Bed
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Screen Cloth
Bronze
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Screens
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Detroit Steel Products Co.
Insect—Rolling
Rolscreen Company

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Shades
Rolling Slat
Lord and Burnham Co.

Sheathing
Asbestos
Carey, Philip, Co.
Careystone
Insulating Fibre
Celotex Co.
Johns-Manville Corp.
Paper
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Sheet Metal
Copper
Chase Brass & Copper Co.

Shelves
Glass
Libbey-Owens-Ford Glass Co.
L-O-F
Pittsburgh Plate Glass Co.

Shingle Stain
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Shingles
Asbestos—Cement
Carey, Philip, Co.
Careystone
Johns-Manville Corp.
Asphalt
Carey, Philip, Co.
Arfaltslate
Johns-Manville Corp.
Cork Insulated
Carey, Philip, Co.
Tile—Clay
Ludowici-Celadon Co.
Wood
Florida Louisiana Red Cypress Co.
Arrow Brand

Shower
Baths
Crane Co.
Refresher
Rival

Shutters
Wood
Florida Louisiana Red Cypress Co.
Arrow Brand

Siding
Asbestos—Cement
Carey, Philip, Co.
Careystone
Brick
Carey, Philip, Co.
Normandy
Wood
Florida Louisiana Red Cypress Co.
Arrow Brand

Sinks
Kitchen
Crane Co.
Corland
Corwith
Laundry Tub Combination
Crane Co.

Snow Fences
See Fences, Wood

Soap Holders
Crane Co.

Stain
Shingle
Pittsburgh Plate Glass Co.
Tor-On
Wood
Pittsburgh Plate Glass Co.
Pitcairn

Stairs
Wood
Florida Louisiana Red Cypress Co.
Arrow Brand

Store Fronts
Hires Turner Glass Co.

Storm
Windows
See Windows, Storm

Stoves
Cooking
See Ranges
Laundry
Burnham Boiler Corp.

Strainers
Gutter—Copper
Chase Brass & Copper Co.
Sink
Crane Co.
Dual
Utility

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Hires Turner Glass Co.
Pittsburgh Plate Glass Co.
Carrara

Sunrooms
Lord and Burnham Co.

Sunshine Rooms
Lord and Burnham Co.

Swimming Pools
See Pools, Swimming

Tables
Work Top
See Work Table Tops

Tennis Court Enclosures
Wayne Iron Works

Thresholds
Weatherstrip Combination
Athey Company

Tile
Asbestos
Johns-Manville Corp.
Flexboard
Clay—Roofing
Ludowici-Celadon Co.
Fibre
Celotex Co.
Johns-Manville Corp.
Masonite Corp.
Temprtile
Floor—Asphalt
Johns-Manville Corp.

Tiling
Structural Glass
Hires Turner Glass Co.
Pittsburgh Plate Glass Co.
Carrara

Timber
See Lumber

Toilets
Crane Co.
Lexel
Maurclonia
Monada
Neuton
Santonia
Siwelclo

Towel Bars
Crane Co.

Tree Guards
Wayne Iron Works

Trellises
Florida Louisiana Red Cypress Co.
Arrow Brand

Trim
Fibre Board
Johns-Manville Corp.
Glass
Pittsburgh Plate Glass Co.
Carrara
Wood
Florida Louisiana Red Cypress Co.
Arrow Brand

Tube
Copper
Chase Brass & Copper Co.

Tubs
Bath
See Bathtubs
Laundry
See Laundry Tubs

Vacuum Valves
See Valves, Vacuum

Valleys
Copper
Chase Brass & Copper Co.

Valves
Modulation
Crane Co.
Radiator
Burnham Boiler Corp.
Crane Co.
Vacuum
Burnham Boiler Corp.
Venting
Burnham Boiler Corp.

Varnish
Pittsburgh Plate Glass Co.
Waterspar

Venetian Blinds
See Blinds, Venetian

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Fibre Board
Johns-Manville Corp.
Glass
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Libbey-Owens-Ford Glass Co.
L-O-F
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Carrara

Wall
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See Coverings, Wall
Finish
Celotex Co.
Johns-Manville Corp.
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** In some instances the manufacturer's name does not appear on the front cover of his catalog. In such cases the names will invariably be found either on the rear cover or inside pages.*

INDEX OF PRODUCTS

NOTE: To use this index it should be borne in mind that all catalogs in this volume are ARRANGED ALPHABETICALLY BY MANUFACTURER'S NAME.* (See instructions on page 1.)

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Johns-Manville Corp.
Flexboard
Insulating—Fibre
Celotex Co.
Johns-Manville Corp.
Masonite Corp.
Presdwood
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Carey, Philip, Co.
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Athey Company

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Woven Wood Fences
See Fences, Wood

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Athey

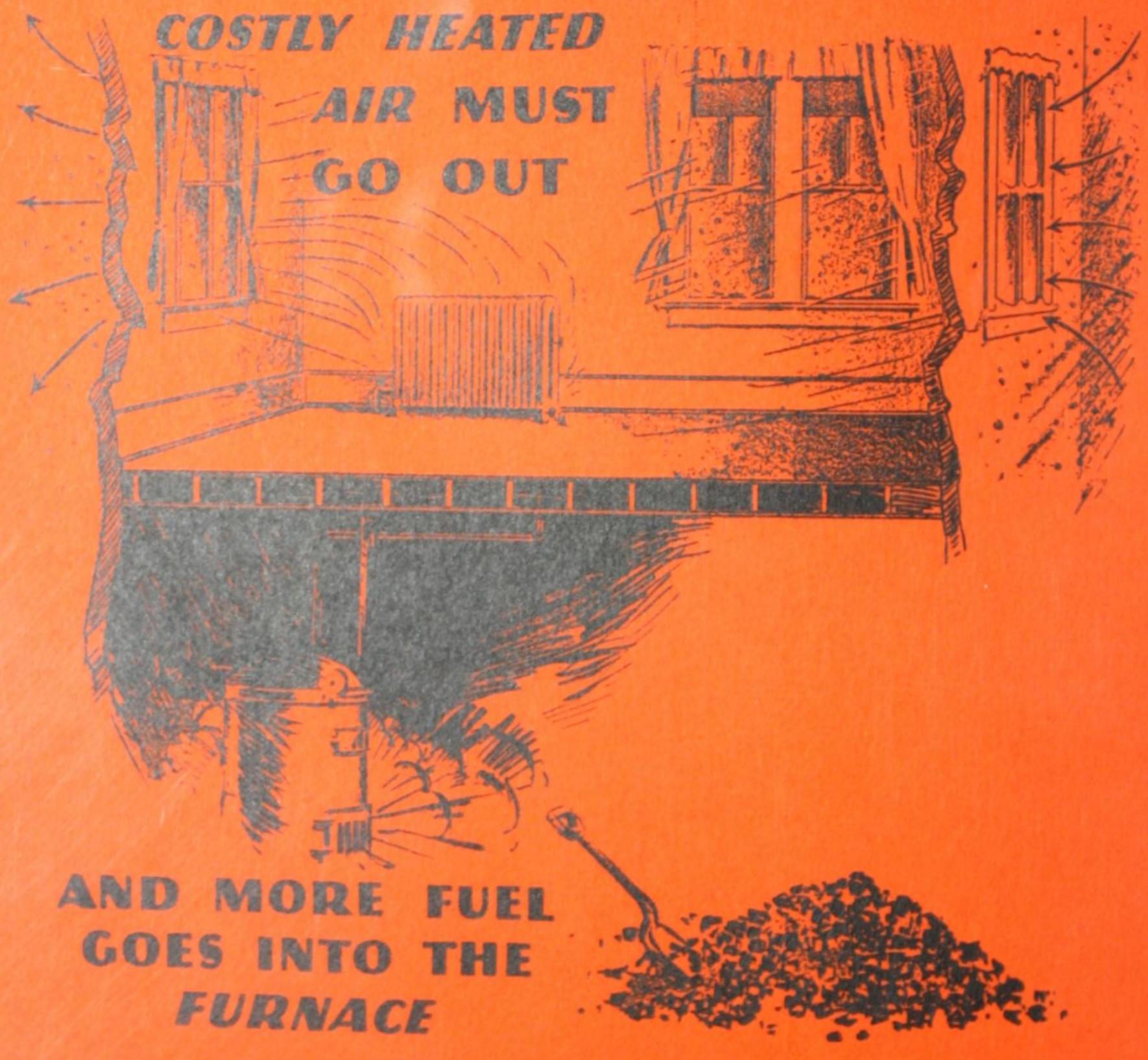
WEATHER STRIP

CLOTH-LINED METAL
THE PERFECT
COMBINATION

ATHEY COMPANY CHICAGO

SEALED DOORS AND WINDOWS ARE NECESSARY FOR AN ECONOMICALLY MAINTAINED AND HEALTHFUL HOME

WHEN COLD AIR ENTERS *COSTLY HEATED* AIR MUST GO OUT



AND MORE FUEL GOES INTO THE *FURNACE*

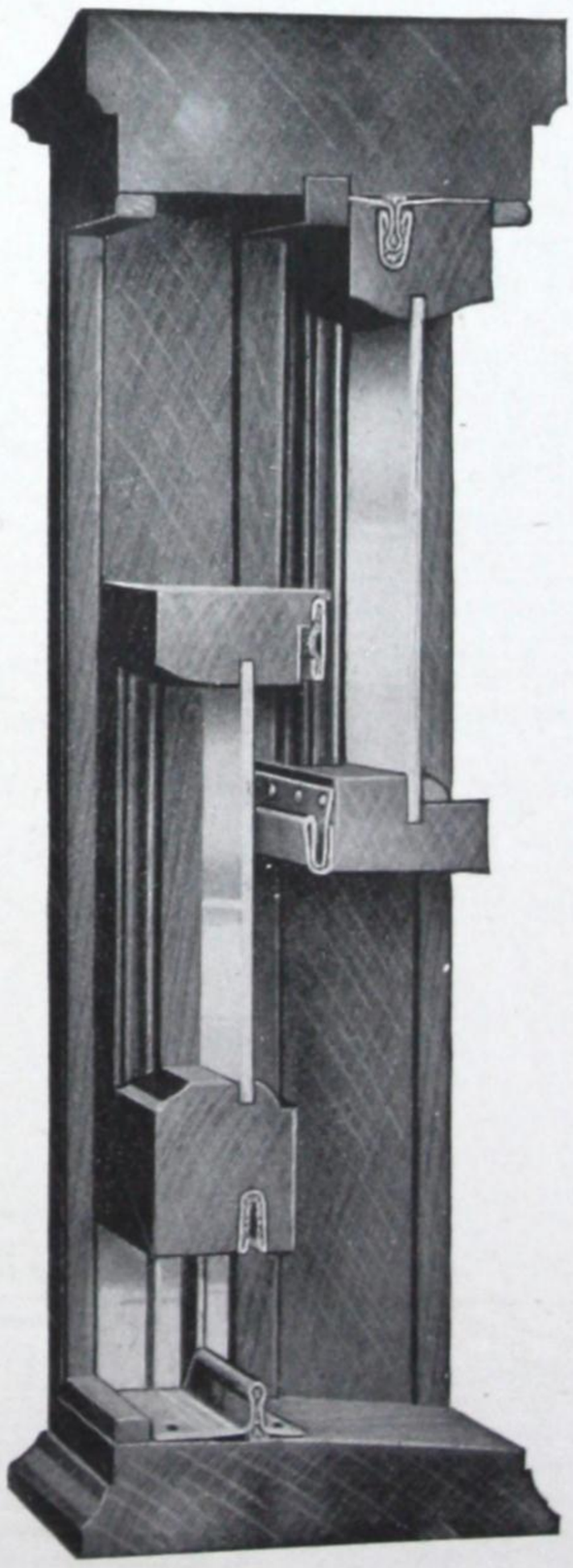
Winter and Summer with Any Type of Heating Plant or Air Conditioning System, Loose Doors and Windows Cost You Money, Discomfort, and Are a Menace to Health.

LEADERSHIP IN WEATHERSTRIPPING

TWENTY-SIX years ago Isaac H. Athey worked out the idea of a most efficient weatherstrip—basic patents were acquired and the business of the Athey Company was inaugurated in 1909.

THE ATHEY PRINCIPLE The Athey method comprises the rail type strip, but with a ball-formed rib and a strip of felt at the back, which prevent air leakage at the jamb, also a cloth-lined zinc channel entirely excluding dirt as well as cold air and preventing rattle of the sash. An important feature is that in double-hung windows one-third of the height of each sash is grooved for the sash cord, about one-half inch wide without protection, with a one-piece strip, while with Athey strip the window is protected the entire height, the channel being continuous.

THE CLOTH The channel lining is a three-ply felted cloth woven specially for our use. It is held in the hem of the zinc by prick punching at every half inch. Although moths do not select windows for their habitation, the cloth is chemically treated with a creosote compound, thus protecting it in storage and also preventing deterioration otherwise of the fabric. The cloth is firmly attached and will last indefinitely without losing its efficiency. We have removed specimens of it from double-hung windows after nineteen years of service and there is no indication of wear; in fact, our contracts for this type of window guarantee the weatherstrip for the life of the building.



COST OF ATHEY STRIP It is apparent that the cost of producing the two pieces of zinc strip with the addition of the felt must be several times that of the ordinary weatherstrip, also more costly to install. The fact that our business has increased steadily for the last twenty-six years would indicate that the populace do not consider an inefficient weatherstrip a paying investment. Savings in heating costs always pay for the cost of an Athey installation in three years, on many occasions in two years, besides eliminating dirt as well as cold air, a result not obtained by ordinary weatherstrips.

METAL-WINDOWS The advent of hollow metal, drawn steel and other types of metal window construction makes a flexible weatherproofing imperative. Operating metal parts cannot be fitted to exclude air.

The cloth-to-metal contact is the only solution, and we have worked out innumerable shapes and methods. Many thousands of America's greatest buildings have adopted Athey weatherstrip. This is also particularly true in Canada, and we have authoritative reports from engineers showing in some instances that the saving in two years' coal consumption was equivalent to the cost of the weatherstrip.

This report, however, does not take into account the economy in stoking, less coal, removing less ashes and the very large saving in janitor service because with this strip infiltration of dirt is not possible.

WEATHERSTRIPPING PRINCIPLES

The object of weatherstripping a window or door is to provide an air tight seal between the jamb or fixed portion of the opening and the sash or movable portion. The more continuous this line of contact can be made around the edge of the sash or door, the more positive the result. The "weak spot" or point of greatest leakage is at the corner of the opening; thus it follows that if the horizontal and vertical strips do not meet and member at the corners best results cannot be obtained. There are three separate and distinct basic principles used in the effort to seal doors and windows.

1. First to appear on the market many years ago, and still in common use, was the single member metal rail, or rib. This rail is fastened to the jamb in sash runway with the rib engaging a groove in sash. As ample clearance must be allowed to give free movement of the sash, maximum efficiency is not obtainable.

2. The second principle is the metal strip fastened to the jamb, usually set in runway of sash and engaging a second metal strip by hook or turn which is fastened to the sash, known as the metal-to-metal contact. This type to be effective as weather-proofing must necessarily fit too closely for easy operation of the window.

3. ATHEY is the metal rail fastened to the jamb in runway of sash and operating in a metal channel which is cloth lined, and inserted in a groove in the sash, thus furnishing what is known as the cloth-to-metal contact. The cloth used is a three-ply material manufactured solely for this purpose and will remain soft and pliable indefinitely. The rib is provided with a felt backing, which prevents any possibility of leakage between the strip and the jamb.

The Athey Company is prepared to furnish material for weatherstripping in accordance with any of the above principles, but sincerely recommends the cloth-to-metal idea as being the most effective preventive of leakage of cold air, dust and soot around windows and doors. We guarantee it will give the greatest degree of satisfaction in this respect, at the same time maintaining a flexible contact which permits the easy operation of the windows.

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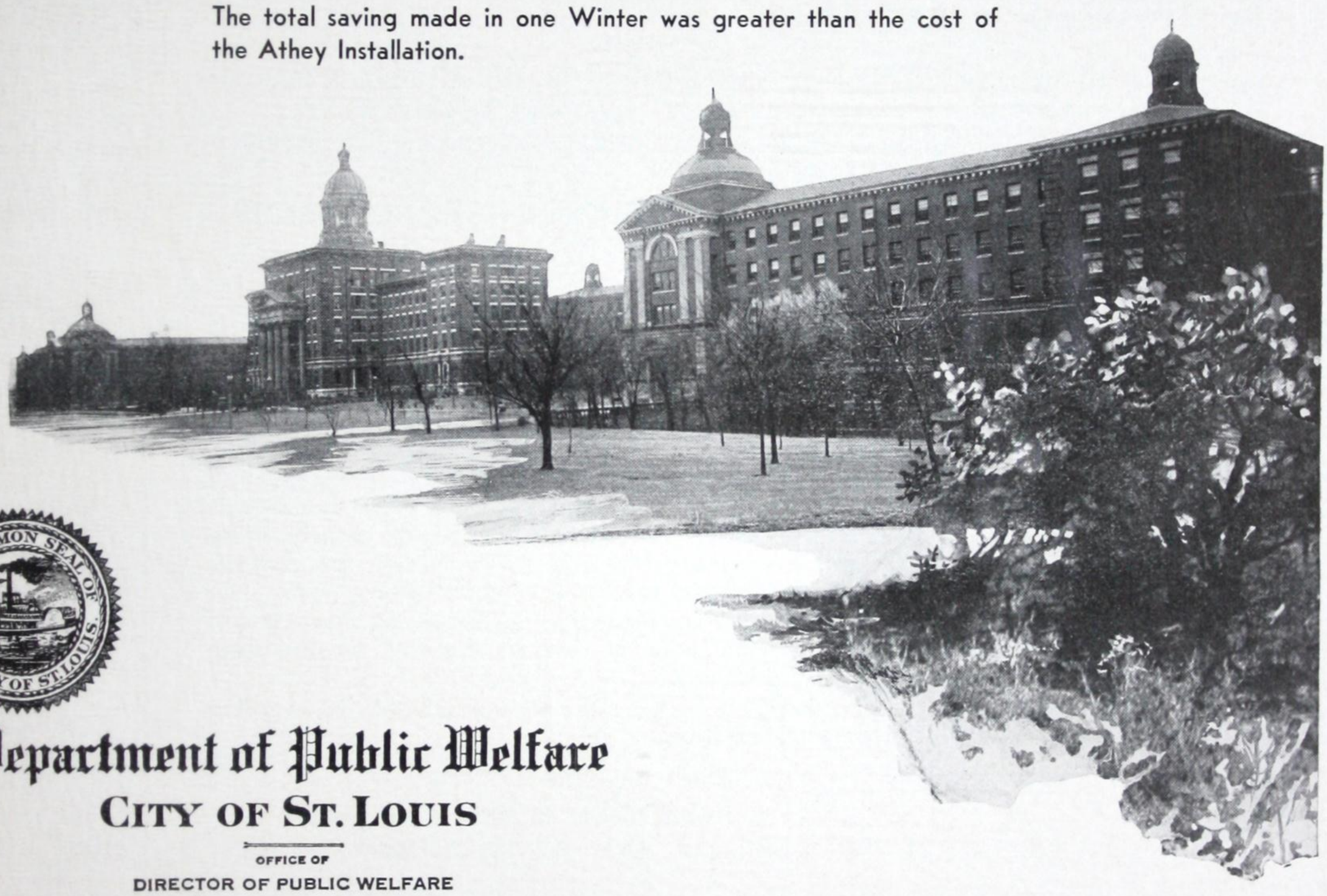
Athey Cloth-Lined Metal Weatherstrip has established its reputation after tweny-six years of performance. When Athey Cloth-Lined Metal Weatherstrip is installed you have purchased weatherstrip for the life of your building.

SAVING WITH ATHEY WEATHERSTRIPPING INSTALLATION

This Is An Unsolicited Endorsement

Cost of Athey Weatherstrip Installation		$13,113.00
Saving in fuel cost the first Winter	$10,500.00	
Saving in blankets	2,000.00	
Saving in handling fuel and ashes	? ? ?	
Saving in cleaning expense	? ? ?	

The total saving made in one Winter was greater than the cost of the Athey Installation.



THE COMMON SEAL OF THE CITY OF ST. LOUIS

Department of Public Welfare
CITY OF ST. LOUIS

OFFICE OF
DIRECTOR OF PUBLIC WELFARE
329 MUNICIPAL COURTS BLDG.

February 16, 1929.

The Athey Company,
Gentlemen:--

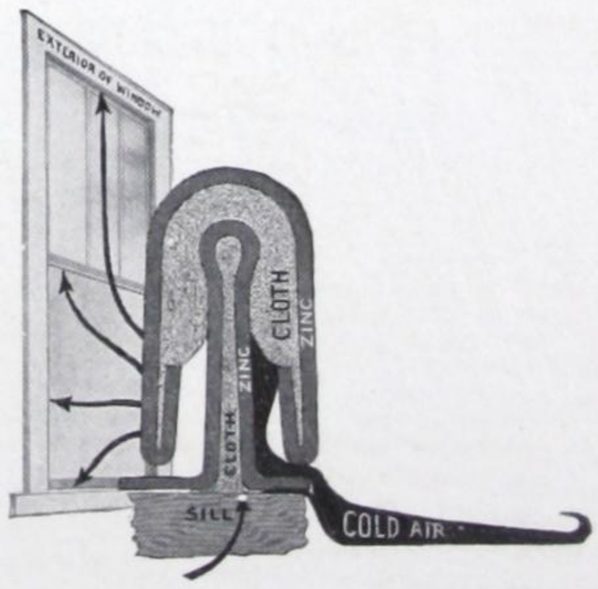
You will perhaps be glad to know that through the weather-stripping job handled by your people at the City Sanitarium recently, we were able to discontinue the use of one 350 horse-power boiler, a saving to the City of about $1500.00 a month in coal. We were also able to cancel an order for about $2000.00 worth of blankets, which had been requisitioned for use during the present winter.

Feeling that this information would be of interest to you, we gladly submit it.

Yours very truly,

H. L. Dalsbury

Director of Public Welfare.



TWO TIMES ACTUAL DIMENSIONS

ENTIRE SATISFACTION FOR OVER THIRTEEN YEARS

Mr. Lew Wentworth,
415 Karbach Block,
Omaha, Nebraska.

Dear Sir:

With reference to your inquiry today regarding the installation of Athey weather strips on the Woodmen of the World Building.

This building was completed in 1912, and the Athey was specified. It has given us entire satisfaction for over thirteen years. The length of service given us speaks for itself, and needs no further recommendation.

Yours truly,
WOODMEN OF THE WORLD BUILDING,
JOHN N. CRAWFORD,
Manager.

MORE HEALTHFUL AND PLEASANT CONDITION OF THE RESIDENCES

Mr. A. A. Orr,
Monongahela Valley Bank Bldg.,
Morgantown, W. Va.

Dear Sir:

With reference to the *Athey Weather Strips* which you placed on nine of our Company residences last fall, it gives me a great deal of pleasure to express an opinion based on our experience during the past winter.

Most of our houses are exposed to high winter winds, and notwithstanding the fact that four of the houses are new and of modern construction, we found it impossible to heat them evenly. Since you installed the weather strips, we find this trouble entirely eliminated, allowing the houses to be heated uniformly with a moderate furnace fire, whereas we previously forced the furnaces to keep the west sides of the houses warm.

While the strips will without question pay for themselves in fuel saved, their greatest advantage, in our opinion, is the entire elimination of cold air draughts and the more healthful and pleasant condition of the residences.

We were very well pleased with the Athey Strips and your workmanship in installing them and feel that we made a very good investment.

Yours very truly,
BETHLEHEM MINES CORPORATION,
H. R. BISSELL,
Chief Engineer.

I FIND IT IS AN ALL SEASON COMMODITY

Athey Company,
Chicago, Ililnois.

Dear Sirs:

I take this means of telling you what I think of the Athey Cloth-lined Weather Strips.

I find it is an all season commodity. It is as essential in the spring and summer—when it acts as a draft and dust preventative keeping out the rain and protecting the interior decoration—as it is in winter when it so effectively reduces the fuel bills by keeping out the wintry blasts. I also find that the strips the whole year round prevents rattling of windows, makes them operate easily. They add but little to the cost of the building and more than pay for themselves in savings effected.

In closing I will say anyone that buys The Athey Cloth-lined Weather Strip can't go wrong on it.

Yours very truly,
LUVERNA B. WILDMAN.

NOT DIFFICULT TO KEEP OUR HOME VERY COMFORTABLE DURING THE COLDEST WEATHER

Athey Company,
Chicago, Ill.

Dear Sirs:

Just a few lines to inform you that I am very well pleased with Athey weather strip which your agent Bert Jennings installed on doors and windows of my home several years ago.

Previous to this installation my fuel bill for 1924 was $104.00. The cost for heat after the installation was made, for 1925 was $88.00 and a further saving was made for 1926 which was $69.00.

I contribute this saving directly to the weather strip as it is not difficult to keep our home very comfortable during the coldest of weather.

I do not hesitate to recommend your service and metallic weather strip to anyone.

Very truly yours,
THE MAPLE CITY ICE COMPANY,
WALTER V. HIPP.

THE GAS STAYS OFF AT MUCH LONGER PERIODS OF TIME

Athey Company,
Chicago, Ill.

Dear Sirs:

We are certainly very pleased with our Athey weather-stripping which you installed for us some time ago. We have had some very cold weather since and notice a decided change in the temperature of our home.

We also notice that the thermostat in the living-room has decreased its action about 25%, showing that the gas stays off at much longer periods of time.

We are altogether very satisfied with your work and wish to thank you for the splendid installation.

Very truly yours,
THE BOWEN COMPANY,
H. S. BOWEN,
Secretary.

THE COST OF THE INSTALLATION HAS ALL BEEN MET IN FUEL SAVING

The Athey Company,
Chicago, Illinois.

Dear Sirs:

In reply to your recent inquiry, beg to state that the Athey Clothed Lined Metal Weather Strips which you installed two years ago on all the steel windows on the West side of our building have proven most satisfactory, and I believe the cost of the installation has all been met in fuel saving. As you know, the West side of the building is on the windy side facing the river and before your installation it was impossible to heat the rooms on a cold windy day.

One day last week which I thought was the worst day of the winter, I visited the different rooms in the building and found we had a constant temperature of seventy-six with very little firing.

Trusting that this answers your inquiry, I am,

Very truly yours,
THE NATIONAL DEPOSIT BANK,
ALLAN K. TAYLOR,
Building Superintendent.

Partial List of Athey Weather Strip Installations

•

Walter Reed Hospital	Washington, D. C.
Post Office	Valley City, N. D.
Union League Club	Chicago, Ill.
Hartman Building	Chicago, Ill.
Lake View Building	Chicago, Ill.
Manhattan Building	Chicago, Ill.
Otis Building	Chicago, Ill.
Blum Building	Chicago, Ill.
London Guaranty and Accident Building	Chicago, Ill.
Kesner Building	Chicago, Ill.
Consumers Building	Chicago, Ill.
Peoples Gas Building	Chicago, Ill.
Standard Oil Co. Building	Chicago, Ill.
Wrigley Building and Annex	Chicago, Ill.
Hamilton Club	Chicago, Ill.
Mount Sinai Hospital	Chicago. Ill.
Alexian Bros. Hospital	Chicago, Ill.
St. Joseph's Hospital	Chicago, Ill.
Illinois Central Hospital	Chicago, Ill.
Frances Willard Hospital	Chicago, Ill.
Drake Hotel	Chicago, Ill.
Blackstone Hotel	Chicago, Ill.
Edgewater Beach Hotel	Chicago, Ill.
Chicago Theater	Chicago, Ill.
Roosevelt Theater	Chicago, Ill.
Tivoli Theater	Chicago, Ill.
Uptown Theater	Chicago, Ill.
Montgomery-Ward Building	Chicago, Ill.
A. W. Grunow Residence	River Forest, Ill.
Streator High School	Streator, Ill.
Iben Apartments	Peoria, Ill.
Jacksonville State Hospital	Jacksonville. Ill.
Dunlap Hotel	Jacksonville, Ill.
Farmington High School	Farmington, Ill.
Ogden Armour Country Estate	Lake Forest, Ill.
Graham Building	Aurora, Ill.
Greystone Apartments	St. Louis, Mo.
Marting Building	St. Louis, Mo.
Ambassador Theater Building	St. Louis, Mo.
Masonic Old People's Home	St. Louis, Mo.
Granada Apartments	St. Louis, Mo.
City Sanitarium	St. Louis. Mo.
Arcade Building	St. Louis, Mo.
Traymore Castle Apartments	St. Louis, Mo.
Carmelite Convent	St. Louis, Mo.
Pierce Office Building	St. Louis, Mo.
Hancock School	St. Louis, Mo.
Hotel Baltimore	Kansas City, Mo.
Chateau Frontenac	Quebec, Canada
Chateau Laurier	Ottawa, Canada
College Mont des Martyrs	Montreal, Quebec, Canada
L'Hospital St. Sacrament	Quebec, Canada
Chateau St. Louis Apartments	Quebec, Canada
Chateau Frontenac Hotel	Quebec, Canada
Parliamentary Library	Ottawa, Canada
Notre Dame Hospital	Montreal, Canada
New Birks Building	Montreal, Canada
Steel Co. of Canada	Montreal, Canada
St. Johns General Hospital	St. Johns, N. B.
Majestic Theater Building	San Antonio, Tex.
Scharbauer Hotel	Midland, Tex.
Hotel Stockton	Fort Stockton, Tex.
Ector County Independent School	Odessa, Tex.
Graham Hotel	Pecos, Tex.
Linden Hotel	El Paso, Tex.
Cedar Glen Apartments	Cleveland, Ohio
Mount Sinai Hospital	Cleveland, Ohio
City Hall	Cleveland, Ohio
Leader-News Building	Cleveland, Ohio
Statler Hotel	Cleveland, Ohio
Hippodrome	Cleveland, Ohio
Euclid Avenue Baptist Academy	Cleveland, Ohio
Stambaugh Auditorium	Youngstown, Ohio
Ohio Hotel	Youngstown, Ohio
Mahoning National Bank	Youngstown, Ohio
Ohio Edison Co.	Youngstown, Ohio
Union Savings & Trust Bank	Warren, Ohio
Fort Hayes Hotel	Columbus, Ohio
Neil House	Columbus, Ohio
Western Reserve Academy	Hudson, Ohio
New Consumers Power Building	Saginaw, Mich.
Telephone Building	Iron Mountain, Mich.
Douglass Hotel	Houghton, Mich.
Henderson-Ames Building	Kalamazoo, Mich.
Gar Wood Residence	Detroit, Mich.
Grace Hospital Nurses' Home	Detroit, Mich.
Providence Academy	St. Mary of the Woods, Ind.
Purdue University	Lafayette, Ind.
Illinois Central Hospital	Paducah, Ky
Philip Germain Residence	Louisville, Ky
Nurses' Home	Ogden, Utah
Post Office	Boise, Idaho
Post Office	Smyrna, Del.
First National Bank	Oshkosh, Wisc.
St. Elizabeth's Hospital	Appleton, Wisc.
New Post Office	Madison, Wisc
Lutheran Old Peoples' Home	Milwaukee, Wisc
St. Joseph's Hospital	Milwaukee, Wisc.
F. E. Murphy Residence	Green Bay, Wisc.
Kimberly-Clark Paper Co.	Neenah, Wisc.
E. G. Vail Residence	Fond du Lac, Wisc.
Midway Hospital	St. Paul, Minn.
Hamline University	St. Paul, Minn.
St. Benedict Academy	Crookston, Minn.
Schenley Apartments	Pittsburgh, Pa.
University Club	Pittsburgh, Pa
Pennsylvania Chocolate Building	Pittsburgh, Pa.
Recreation Building, Marine Hospital	Aspinwall, Pa
Penn Harris Hotel	Harrisburg, Pa.
Truesdell Hospital	Fall River, Mass.
Leominster Hospital	Leominster, Mass.
Harvard University, Business Building	Cambridge, Mass.
St. Anne Parish School	Fall River, Mass.
M. C. Franklin Apartments	Roanoke, Va.
Appalachian Power Company	Roanoke, Va.
Creek Club	Locust, Valley, N. Y.
Dwight W. Morrow Residence	Englewood, N. J.
Thayer West Point Hotel	New York City
Classen Point Military Academy	New York City
Hecksher Foundation for Children	New York City
Radio Station, WHAP and WLWL	New York City
Montgomery-Ward Building	Jamaica, N. Y.
F. Ziegfeld Residence	Hastings-on-Hudson, N. Y.
Twentieth Century Club	Buffalo, N. Y.
Rand-Kardex Company	Tonawanda, N. Y.
Exchange National Bank Building	Olean, N. Y.
Cataract National Bank	Niagara Falls, N. Y.
Cattaraugus School	Cattaraugus, N. Y.
Home of the Friendless	Lockport, N. Y.
Hotel Utica	Utica, N. Y.
Montclair Golf Club	Montclair, N. J.
New Sherman School	Cranford, N. J.
Bond Hotel and Annex	Hartford, Conn.
State Capital	Hartford, Conn.
Wesleyan University	Middleton, Conn.
Sage Allen Building	Hartford, Conn.
Johns Hopkins University	Baltimore, Md.
Windsor Court Apartments	Baltimore, Md.
Rhode Island Trust Building	Providence, R. I.
El Jabel Temple	Denver, Colo.
Post Office Building	Glenwood Springs, Colo.
High School	Spearfish, S. D.
U. S. Post Office	North Platte, Nebr.
State University, Medical Bldg.	Omaha, Nebr.
Lutheran Hospital	Beatrice, Nebr.
Cosden Building	Tulsa, Okla.
Brown Marx Office Building	Birmingham, Ala.
Woodlawn High School	Birmingham, Ala.
Signal Mountain Hotel	Chattanooga, Tenn.
Claridge Hotel	Memphis, Tenn.
University of Tennessee, Medical Bldg.	Memphis, Tenn.
Citizens' Bank	Dyersburg, Tenn.
Ft. Saunders Hospital	Knoxville, Tenn.
Paramount Theater	Nashville, Tenn.
Marquette Hotel	Hot Springs, Ark.
Elks Club	Jonesboro, Ark.
Columbus Hospital	Columbus, Miss.
Meridian Masonic Temple	Meridian, Miss.
Main Street High School	Vicksburg, Miss.
Multnomah County Hospital	Portland, Oregon
Telephone Building	Portland, Oregon
LaGrande Railway Station	LaGrande, Oregon
Court House and Jail	Great Falls, Mont.
U. S. Rubber Co. Building	Great Falls, Mont.
Lincoln School	Great Falls, Mont.
450 Sutter Street Building	San Francisco, Calif.
University of North Carolina	Chapel Hill, N. C.
Three Grade Schools	Durham, N. C.
Melbourne Hotel	Durham, N. C.
John B. Young School	Davenport, Iowa
West Intermediate School	Davenport, Iowa
Shenandoah National Bank	Shenandoah, Iowa
Jefferson Hotel	Iowa City, Iowa
Broadlawns Polk County Public Hospital	Des Moines, Iowa









































A FEW OF MANY THOUSANDS OF BUILDINGS EQUIPPED WITH ATHEY WEATHERSTRIPS

ATHEY WEATHERSTRIPPING IS MOST ECONOMICAL BECAUSE..

1. It is most highly efficient.

2. It never needs repair or replacement.

CONSULT with your architect on the subject of weatherstripping for the house you build. Your weatherstripping can be most economically and satisfactorily installed when your house is being built.

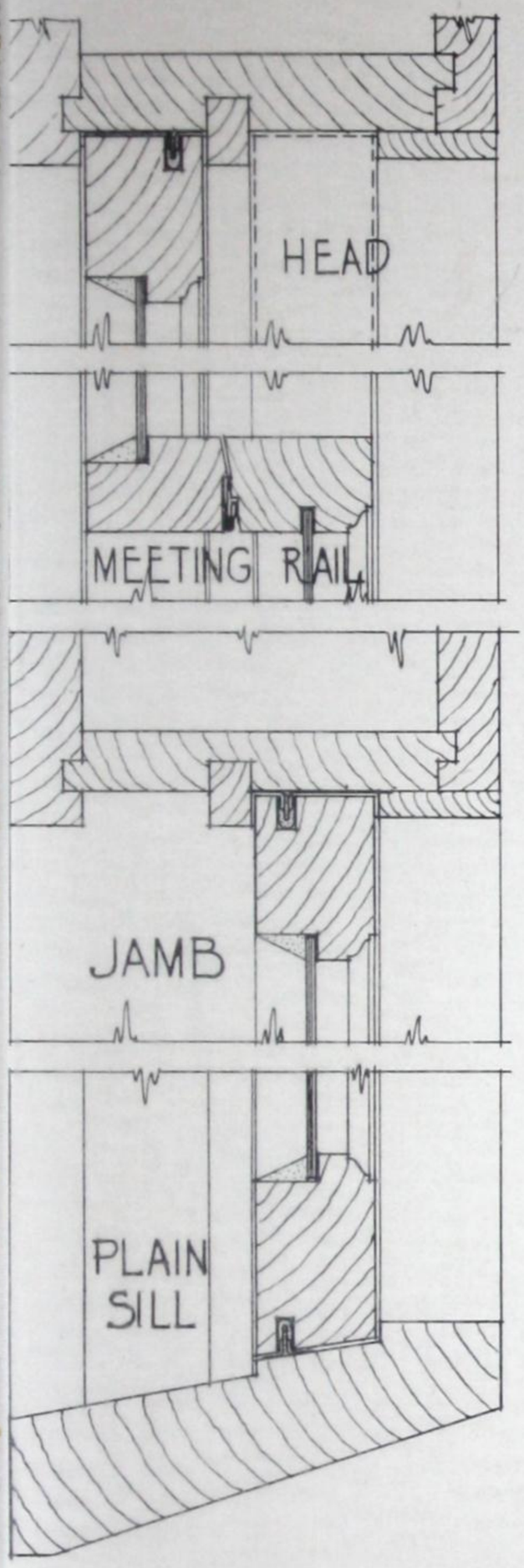
Athey cloth-lined metal weatherstrips have proven their leadership in quality and value over a period of twenty-six years.

Their effective service is well known to your architect. Remind him that you too favor Athey for best results and economy.

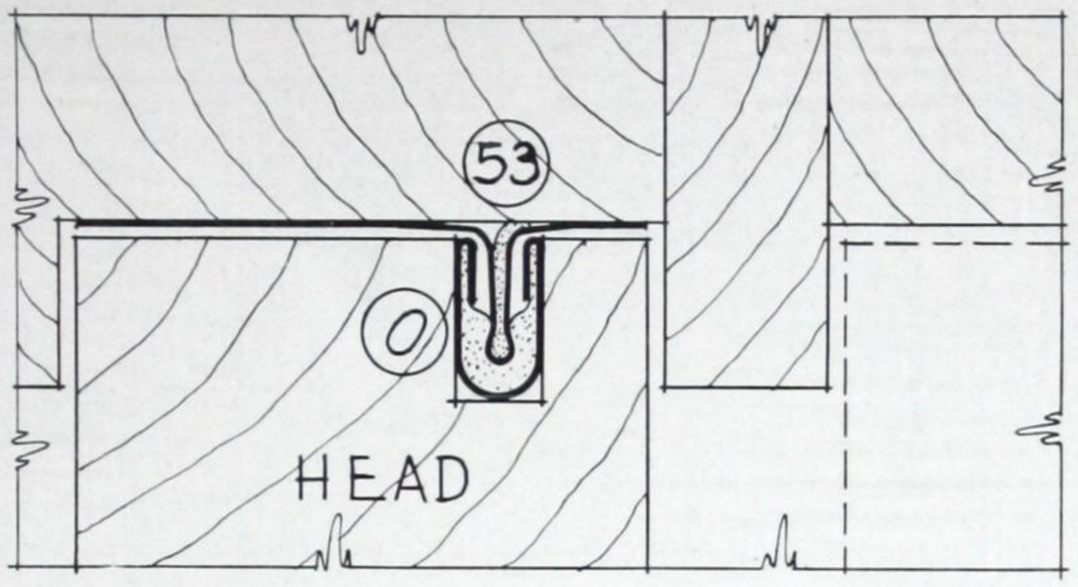
Remember Athey Weatherstripping will maintain its maximum efficiency for the life of your building.

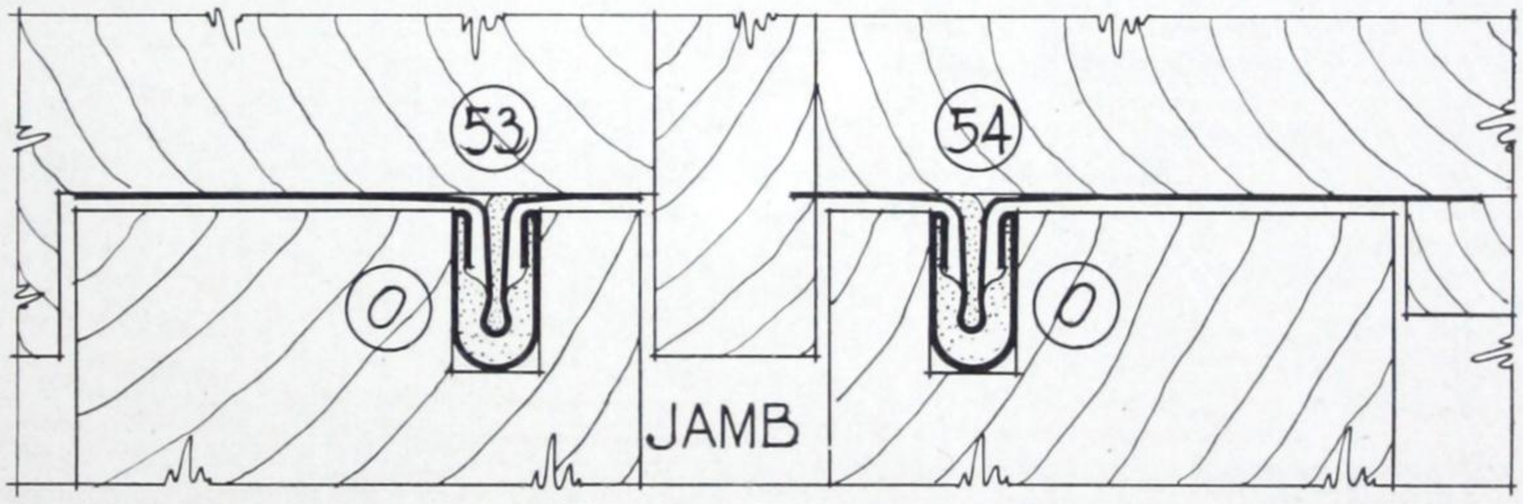
DETAILS AND SPECIFICATIONS FOLLOW

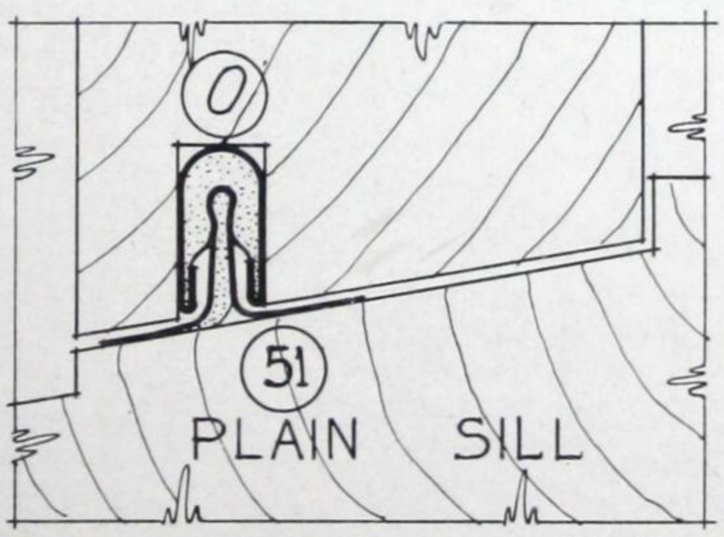
ATHEY № 50 EQUIPMENT FOR DOUBLE-HUNG WOOD WINDOWS



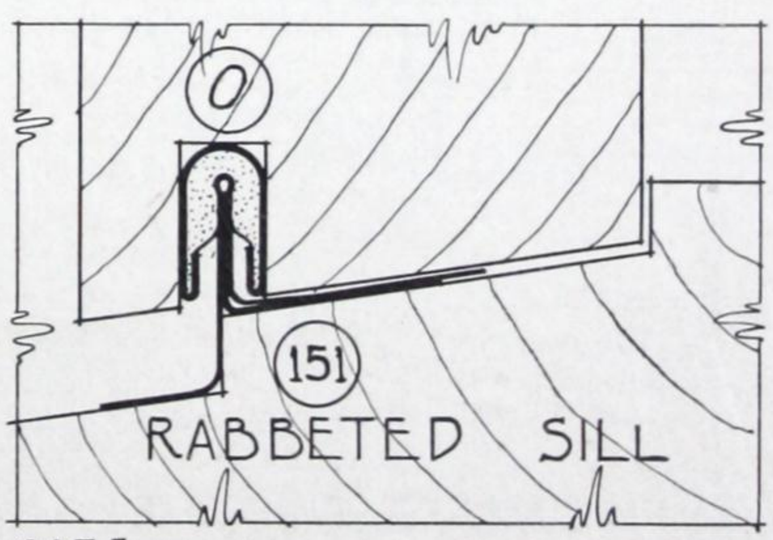
ONE-QUARTER FULL SIZE







FULL SIZE



FULL SIZE

Height Size	1⅜"	1¾"	2¼"
Jambs, Head and Bottom of sash	0	0	0
Plain Sill	51	51	51
Rabbeted Sill	151	151	151
Head and Sides of Upper Sash	52	54	56
Sides of Lower Sash	53	55	57
Meeting Rail	5	5	5

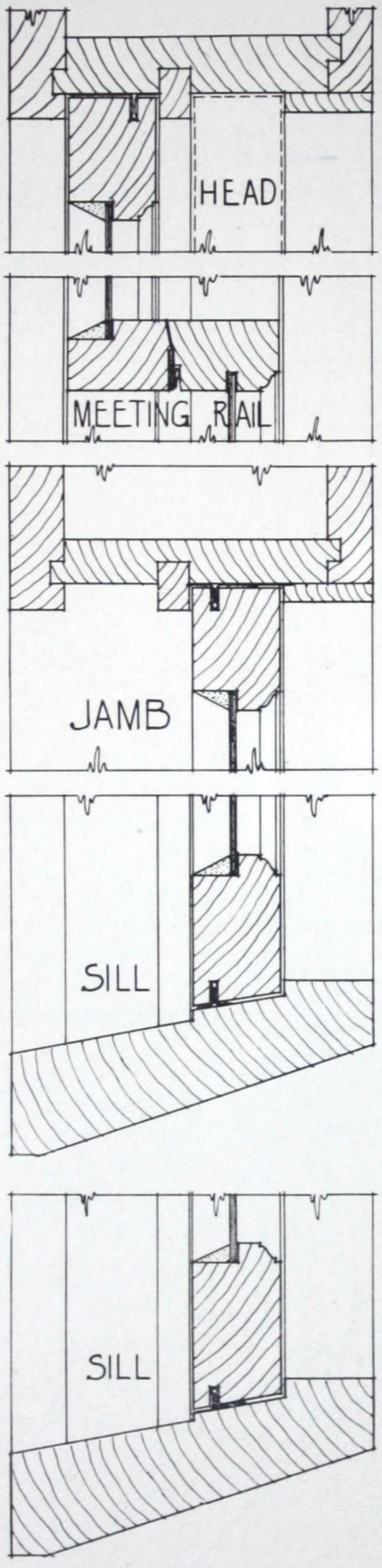
BRONZE			ZINC	
No.	Gauge	Thickness in Inches	Gauge	Thickness in Inches
0	25	.0179	9	.018
5	Flat-22 Hook-25	.025 .0179	Flat-11 Hook-9	.024 .018
51	25	.0179	9	.018
52	25	.0179	9	.018
53	25	.0179	9	.018
54	25	.0179	9	.018
55	25	.0179	9	.018
151	25	.0179	9	.018

SPECIFICATION

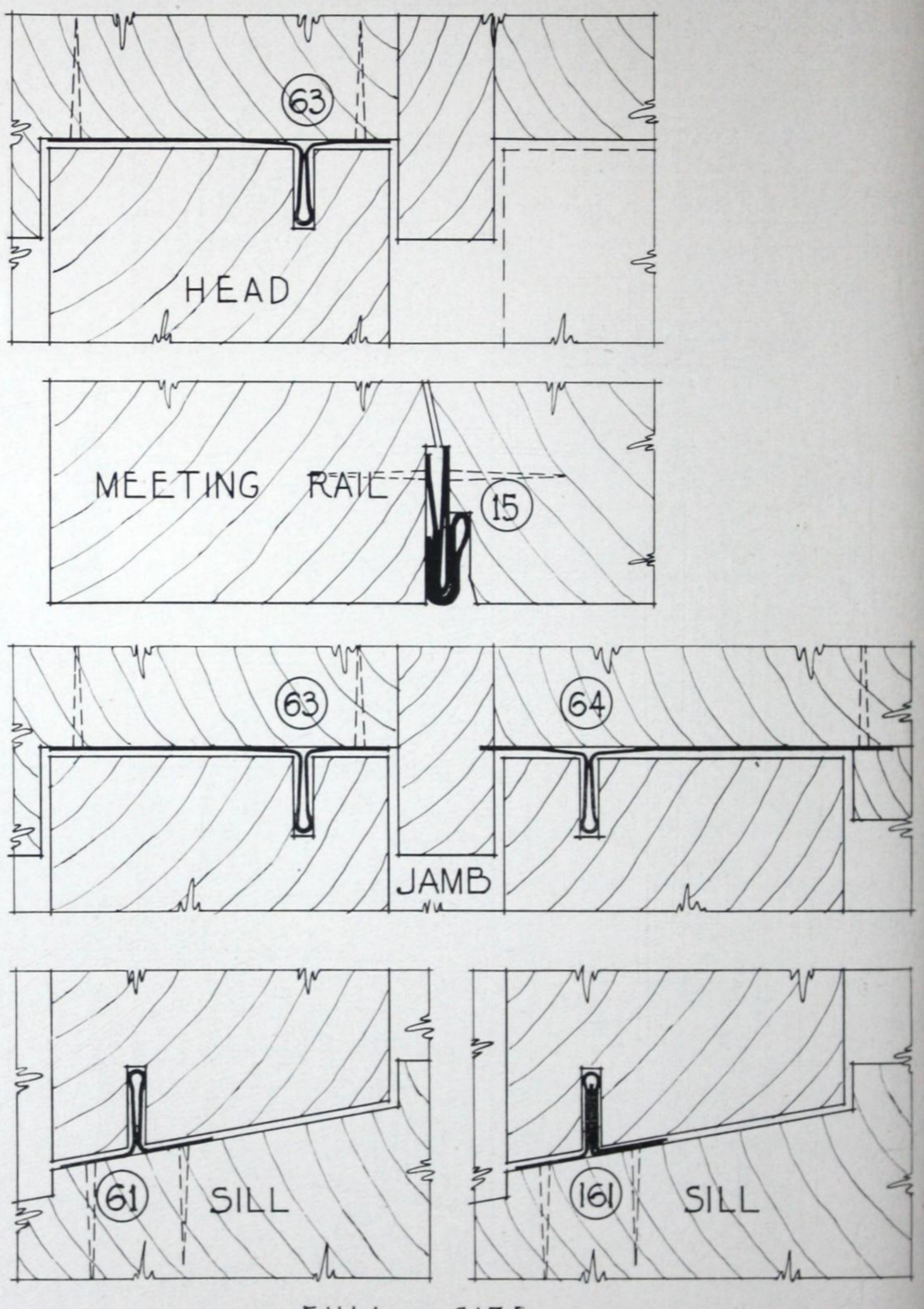
Install on all wood double-hung windows Athey No. 50 zinc (or bronze) cloth lined weather strip equipment, using (No. 51 regular sill strip or No. 51A steel reinforced sill strip or, where rabbeted sills occur, No. 151 steel reinforced rabbeted sill strip); all carefully aligned for full contact and tight seal, all intersecting members coped to make positive leak-proof corners and all parts securely fixed in position. This equipment shall include dust blocks of wood, or metal-covered felt, on parting strips at meeting rail.

ATHEY Nº 60 EQUIPMENT FOR DOUBLE-HUNG WOOD WINDOWS

SCALE—ONE-QUARTER AND FULL SIZE



ONE-QUARTER FULL SIZE



FULL SIZE

Sash Size	1⅜"	1¾"	2¼"
Plain Sill	61	61	61
Plain Sill Reinforced	161	161	161
Head and Sides of Upper Sash	62	64	66
Sides of Lower Sash	63	65	67
Meeting Rail	15	15	15

	BRONZE		ZINC	
No.	Gauge	Thickness in Inches	Gauge	Thickness in Inches
15	25	.0179	9	.018
61	25	.0179	9	.018
62	25	.0179	9	.018
63	25	.0179	9	.018
64	25	.0179	9	.018
65	25	.0179	9	.018
161	25	.0179	9	.018

SPECIFICATION

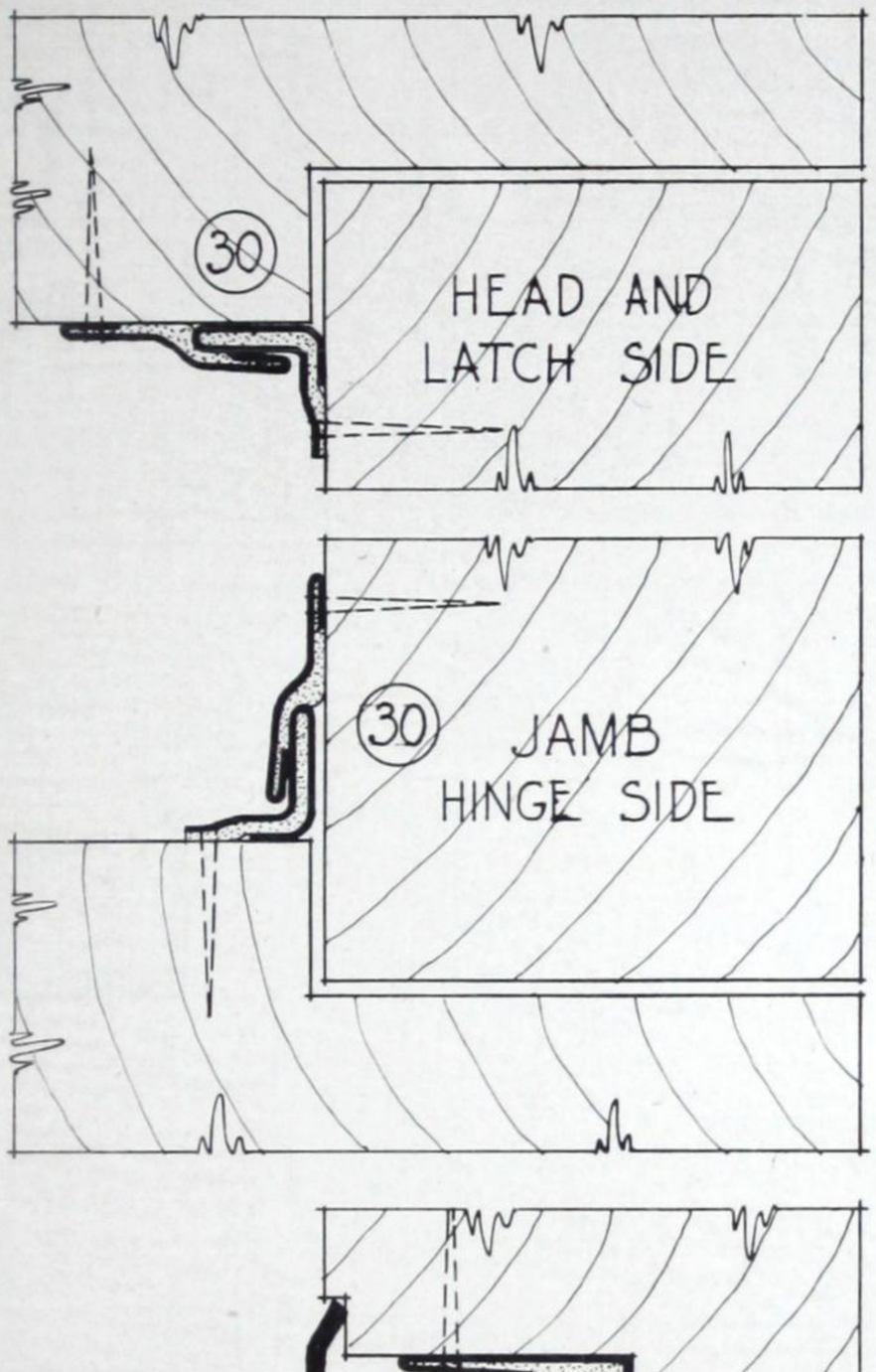
Install on all wood double-hung windows Athey No. 60 zinc (or bronze) weather strip equipment, using (No. 61 plain strip or No. 61A steel reinforced strip or, where rabbeted sills occur, No. 161 steel reinforced strip or No. 151 steel reinforced rabbeted sill strip); all carefully aligned for full contact and tight seal, all intersecting members coped to make positive leak-proof corners and all parts securely fixed in position. This equipment shall include dust blocks of wood, or metal-covered felt, on parting strips at meeting rail.

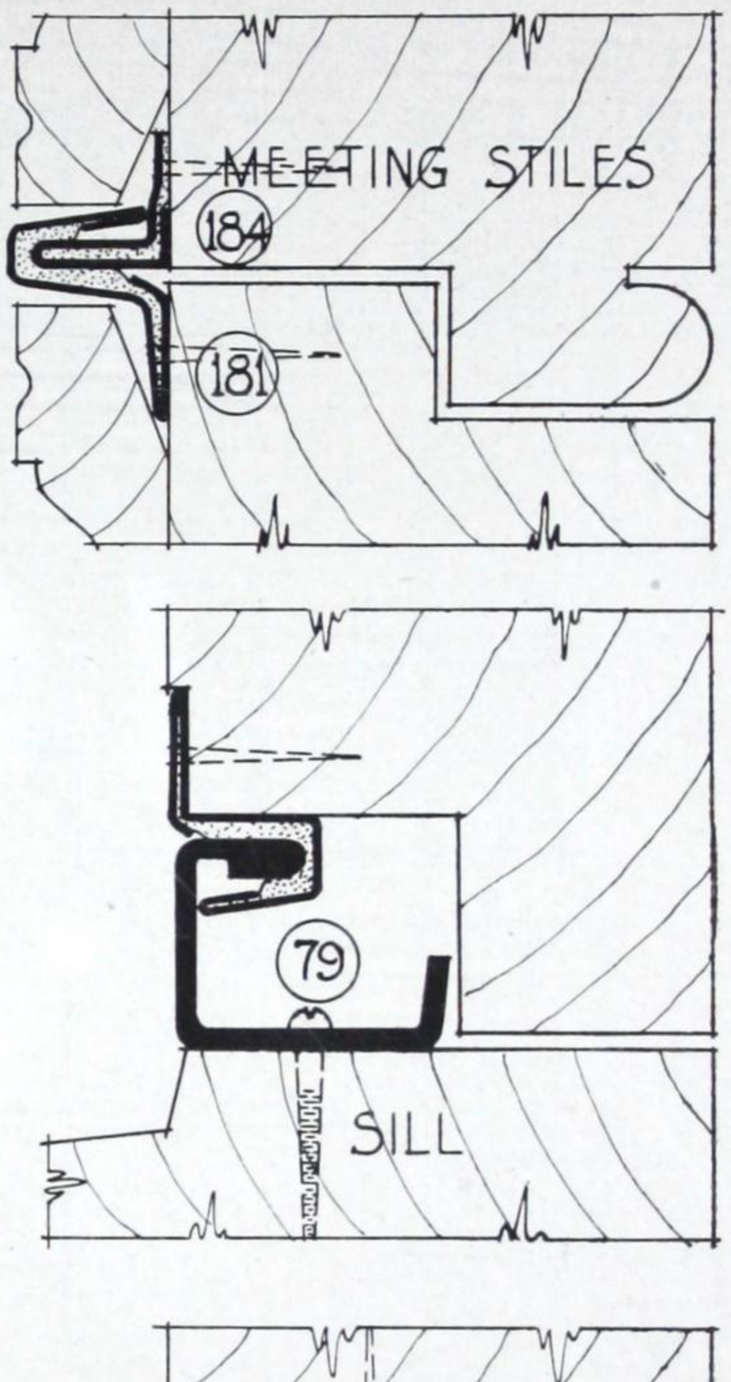
ATHEY № 70 EQUIPMENT
FOR
IN-SWINGING WOOD CASEMENT WINDOWS

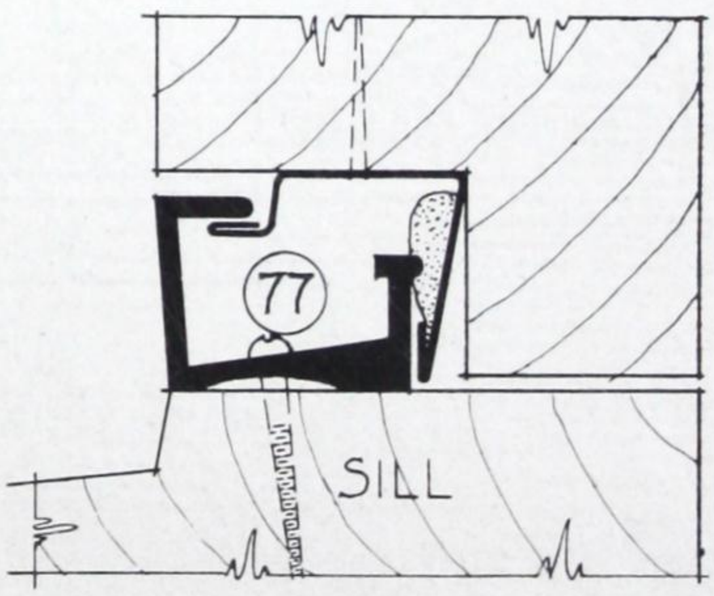
SCALE – ONE-QUARTER AND FULL SIZE



ONE-QUARTER FULL SIZE







FULL SIZE.

ıd	30-2 Pieces
ıbs	30-2 Pieces
eting Stiles	181 and 184
	76-77 or 79

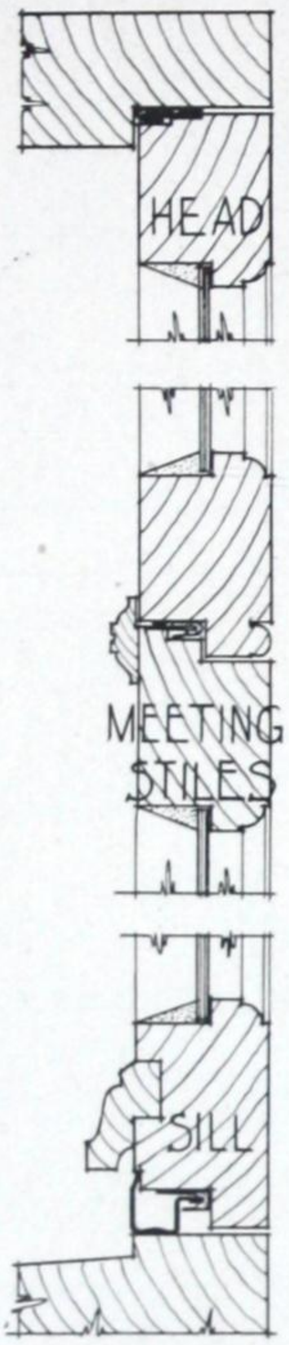
BRONZE			ZINC	
No.	Gauge	Thickness in Inches	Gauge	Thickness in Inches
30	22	.025	11	.024
76	16 Ga. Brass	.0508	18	.054
77	Extruded Brass			
79	16 Ga. Brass	.0508	18	.054
181	25	.0179	9	.018
184	25	.0179	9	.018

SPECIFICATION

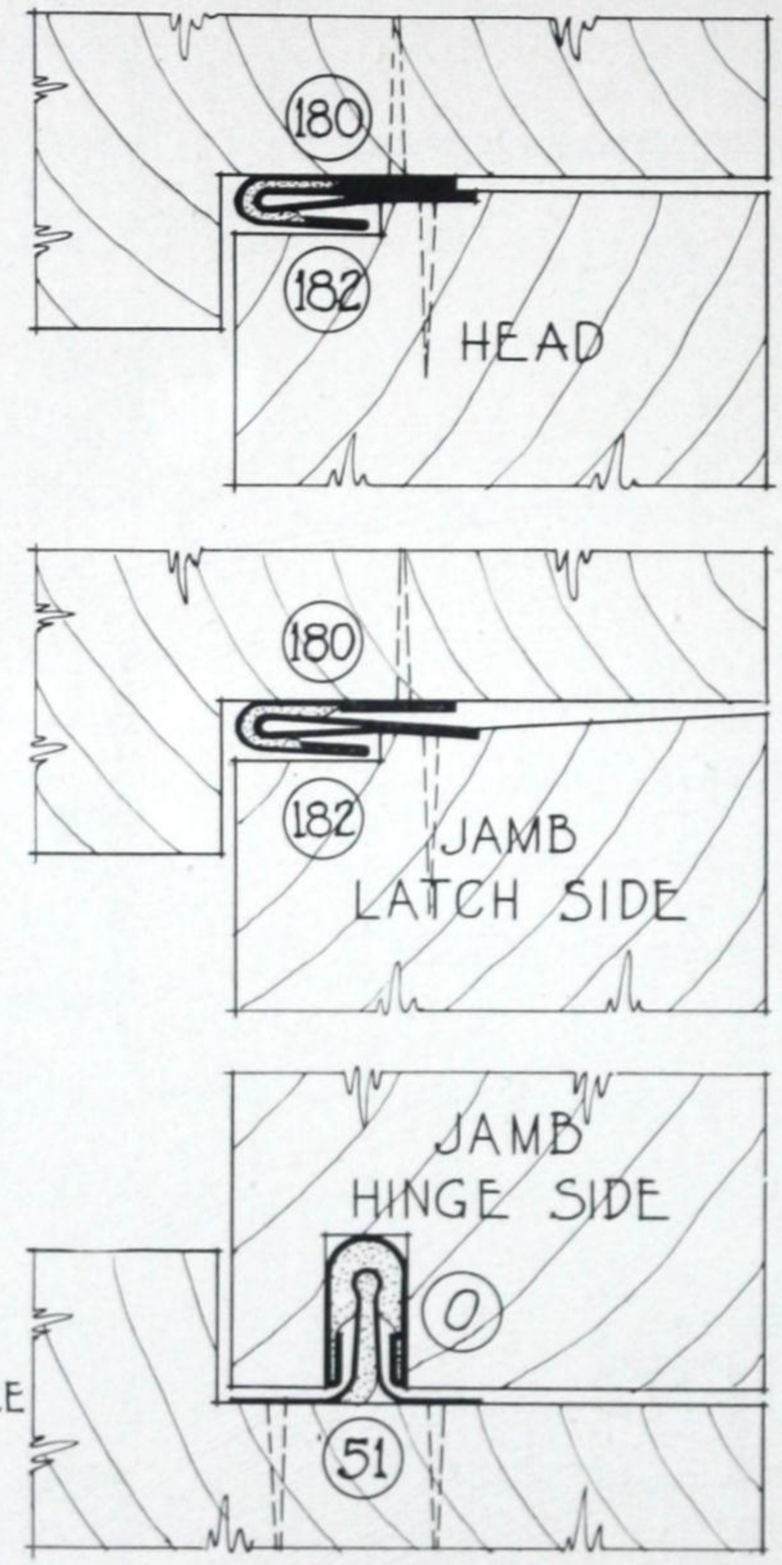
Install on all wood in-swinging casement windows Athey No. 70 zinc (or bronze) surface interlocking cloth lined weather strip equipment, using (No. 76 or No. 79 trough in either brass or zinc or No. 77 trough in extruded brass); all carefully aligned for full contact and tight seal, all intersecting members coped to make positive leak-proof corners and all parts securely fixed in position; all troughs shall be bedded in caulking cement.

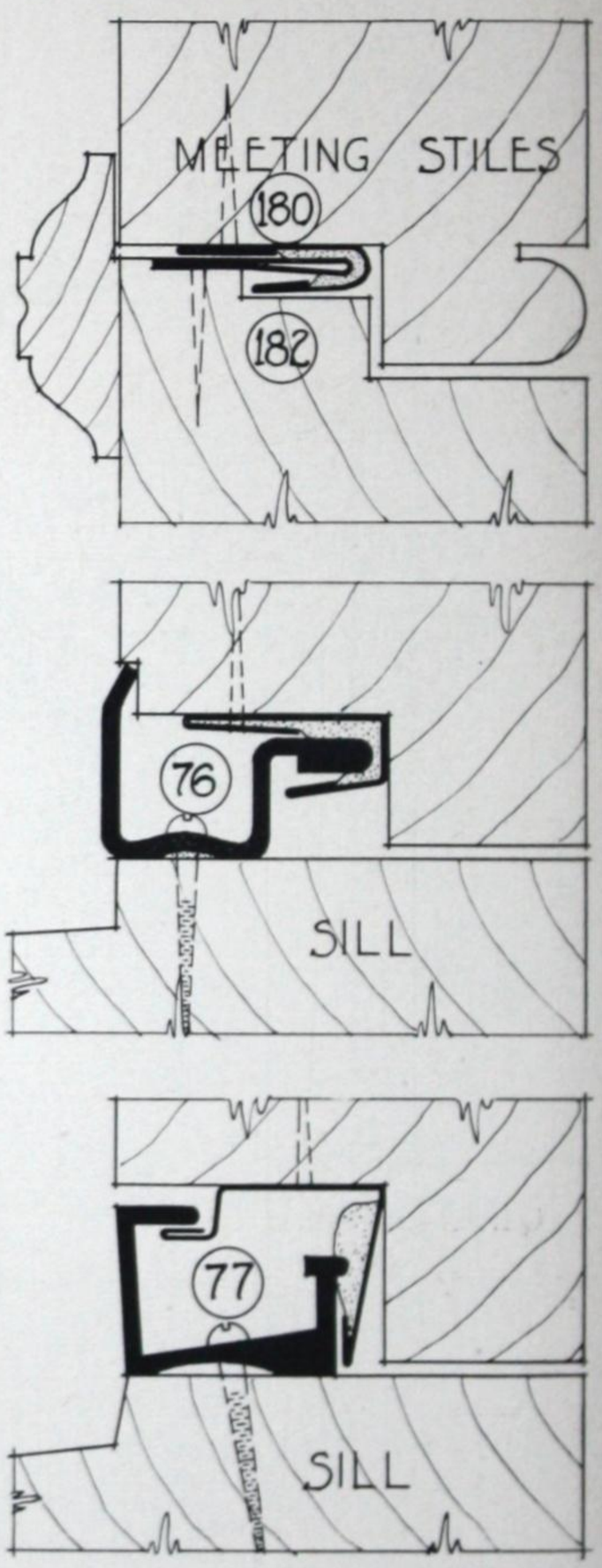
Note.—Have Carpenter provide adequate wood drip, set to clear the trough specified. Wood mouldings at meeting rail strips are advisable for protection.

ATHEY № 80 EQUIPMENT
FOR
IN-SWINGING WOOD CASEMENT WINDOWS
SCALE—ONE-QUARTER AND FULL SIZE



ONE-QUARTER FULL SIZE





FULL SIZE

Head	180 and 182
Jamb-Latch Side	180 and 182
Jamb-Hinge Side	0 and 51
Meeting Stiles	180 and 182
Sill	76 or 77

BRONZE			ZINC	
No.	Gauge	Thickness in Inches	Gauge	Thickness in Inches
0	9	.018	9	.018
51	9	.018	9	.018
76	16 Ga. Brass	.0508	18	.054
77	Extruded Brass		....	....
180	25	.0179	9	.018
182	25	.0179	9	.018

SPECIFICATION

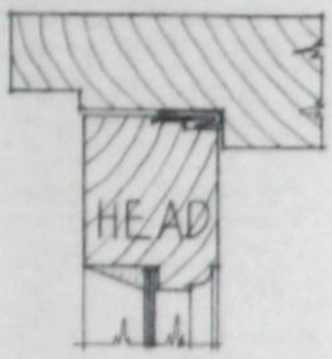
Install on all wood in-swinging casement windows Athey No. 80 zinc (or bronze) concealed interlocking cloth lined weatherstrip equipment, using (No. 76 trough in either zinc or brass or No. 77 trough in extruded brass), all carefully aligned for full contact and tight seal, all intersecting members coped to make positive leak-proof corners and all parts securely fixed in position.

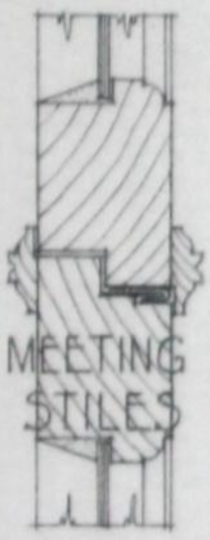
Note.—Insert in Carpentry specification: All butts shall be set so as not to interfere with weatherstrips.

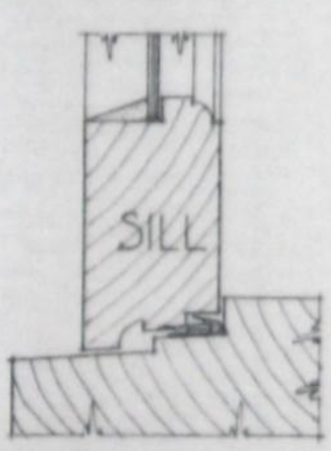
Note.—Have Carpenter provide adequate wood drip, set to clear the trough specified.

ATHEY № 90 EQUIPMENT
FOR
OUT-SWINGING WOOD CASEMENT WINDOWS

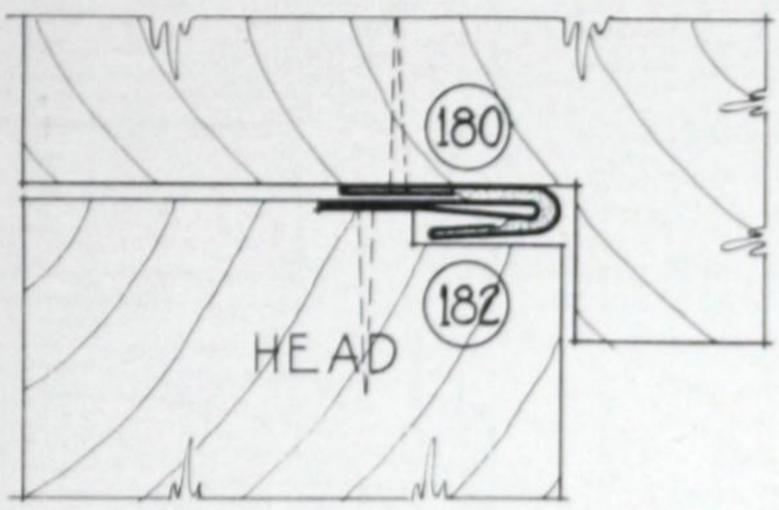
SCALE—ONE-QUARTER AND FULL SIZE

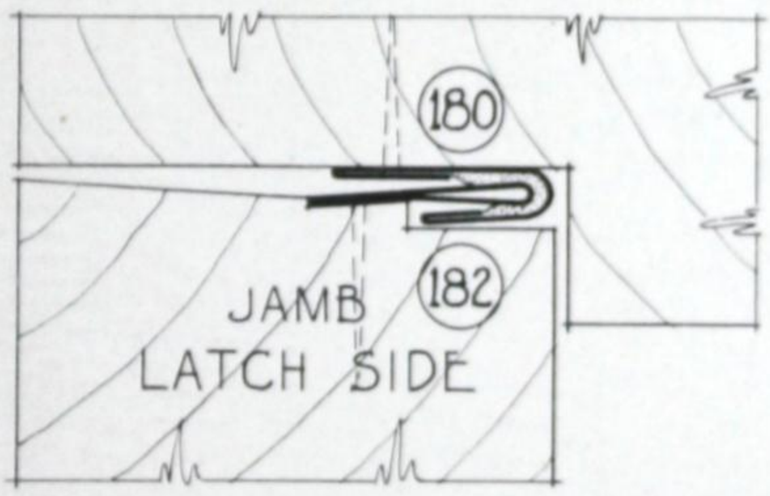


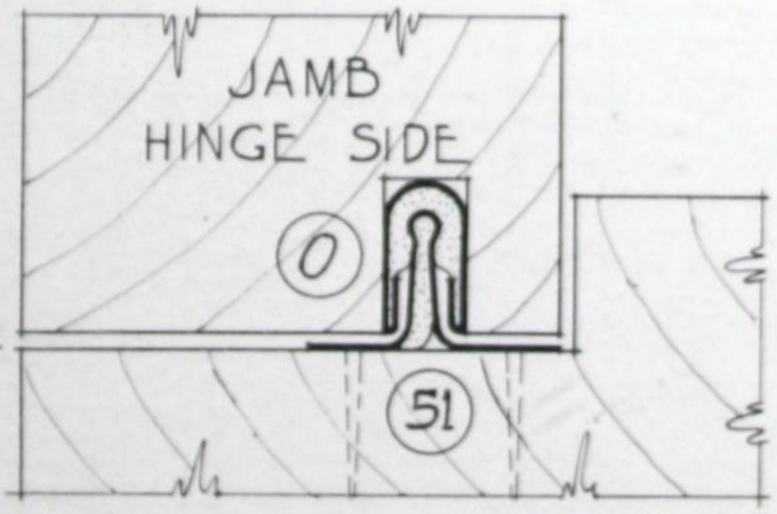




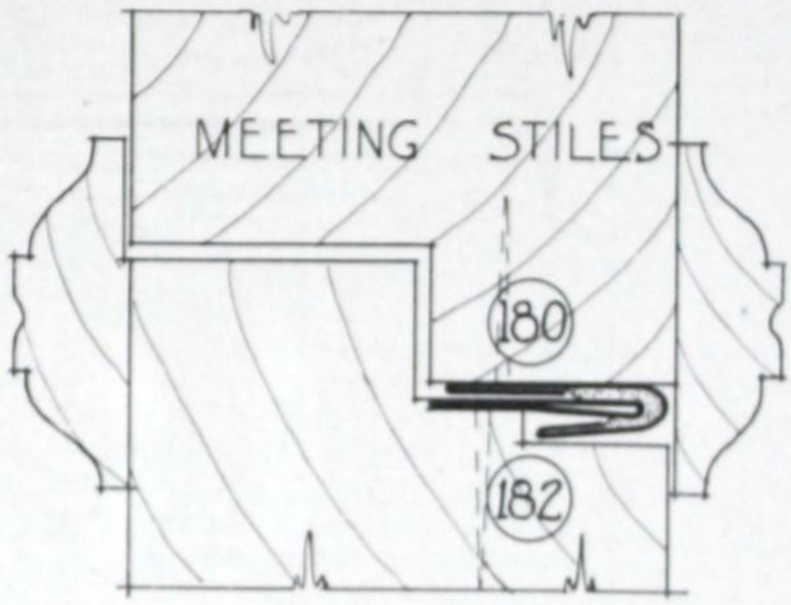
ONE-QUARTER FULL SIZE

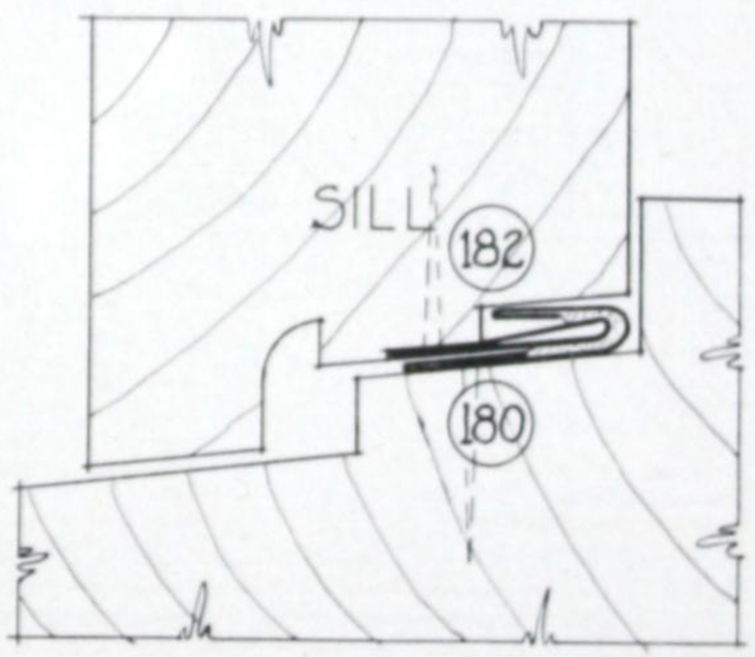






FULL SIZE





	180 and 182
atch Side	180 and 182
inge Side	0 and 51
Stiles	180 and 182
	180 and 182

BRONZE			ZINC	
No.	Gauge	Thickness in Inches	Gauge	Thickness in Inches
0	9	.018	9	.018
51	9	.018	9	.018
180	25	.0179	9	.018
182	25	.0179	9	.018

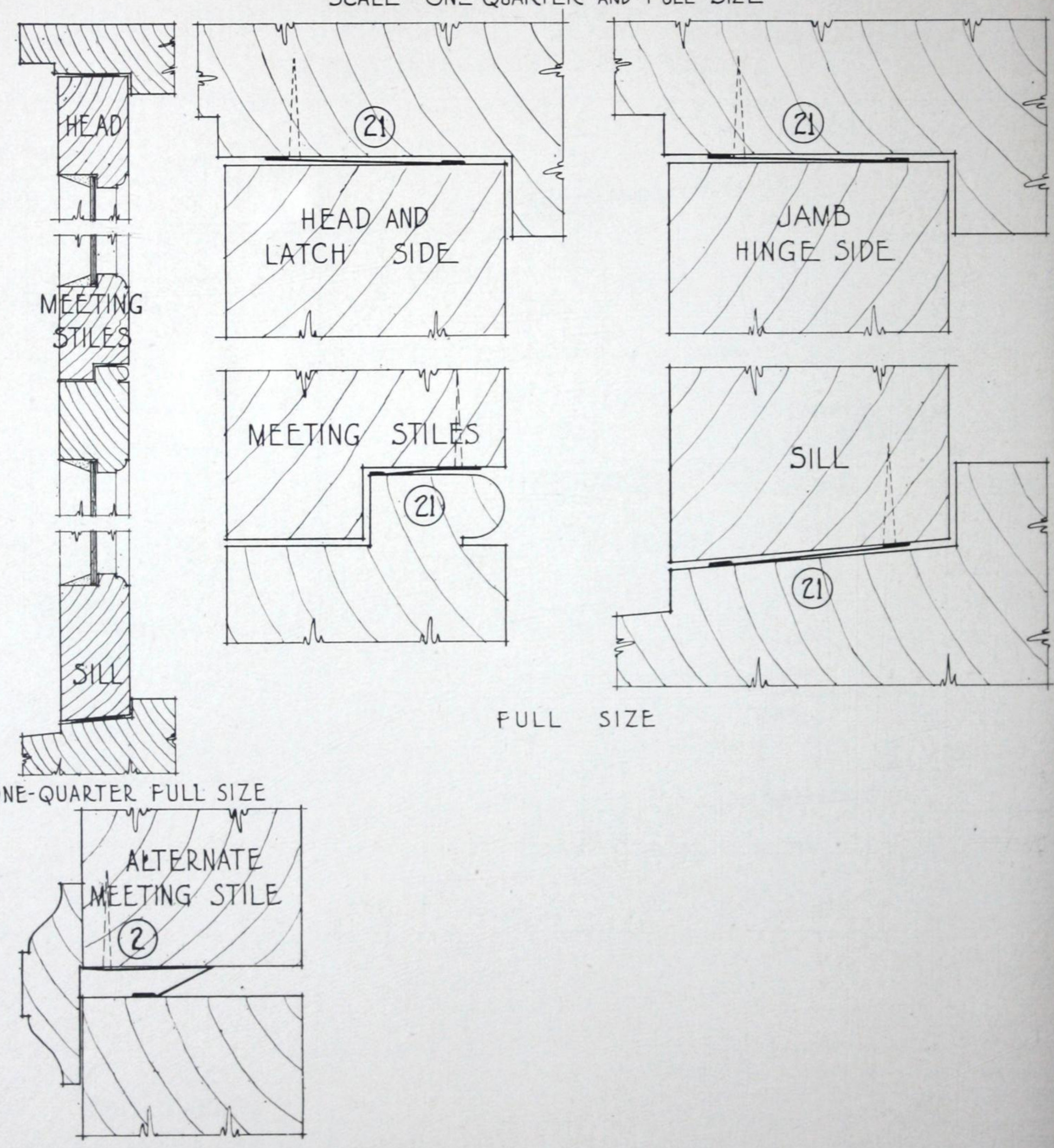
SPECIFICATION

Install on all wood out-swinging casement windows Athey No. 90 zinc (or bronze) concealed interlocking cloth lined weather strip equipment, all carefully aligned for full contact and tight seal, all intersecting members coped to make positive leakproof corners and all parts securely fixed in position.

Note: Insert in Carpentry Specification: All butts shall be set so as not to interfere with the weather strips.

ATHEY No. 100 EQUIPMENT
FOR
OUT-SWINGING WOOD CASEMENT WINDOWS

SCALE—ONE-QUARTER AND FULL SIZE



ONE-QUARTER FULL SIZE

FULL SIZE

Head	21
Jamb	21
Meeting Stiles	21
Sill	21

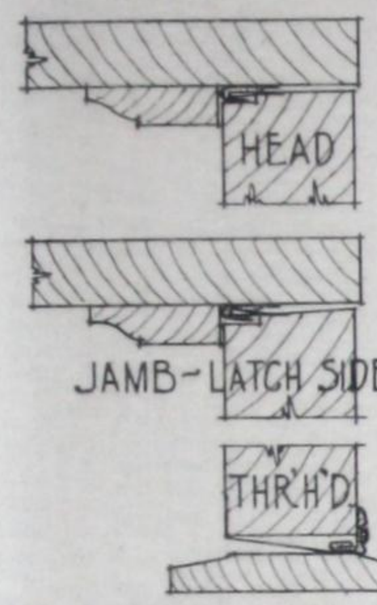
BRONZE		
No.	Gauge	Thickness in Inches
2	30	.0100
21	30	.0100

SPECIFICATION

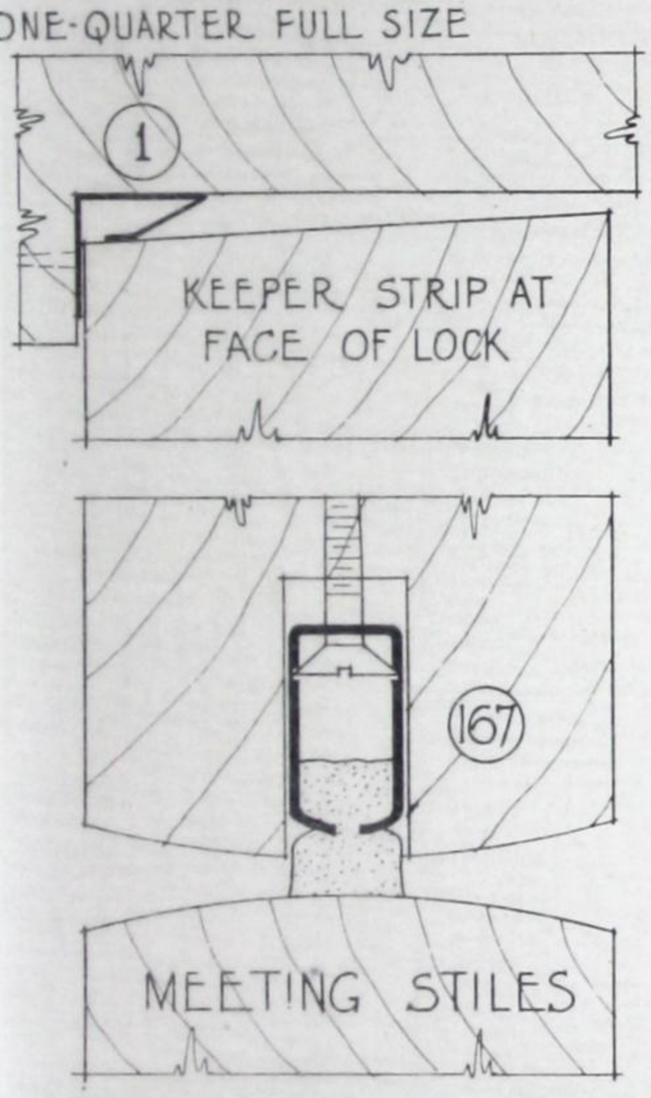
Install on all wood out-swinging casement windows Athey No. 100 corrugated spring bronze weather-proof equipment, having both edges hemmed, all carefully aligned for tight seal and all parts securely fixed in position, using brass or copper nails, with one nail to each mark.

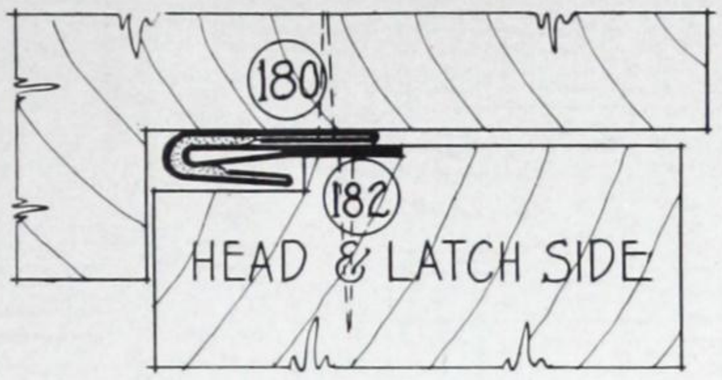
ATHEY Nº 110 EQUIPMENT FOR WOOD DOORS

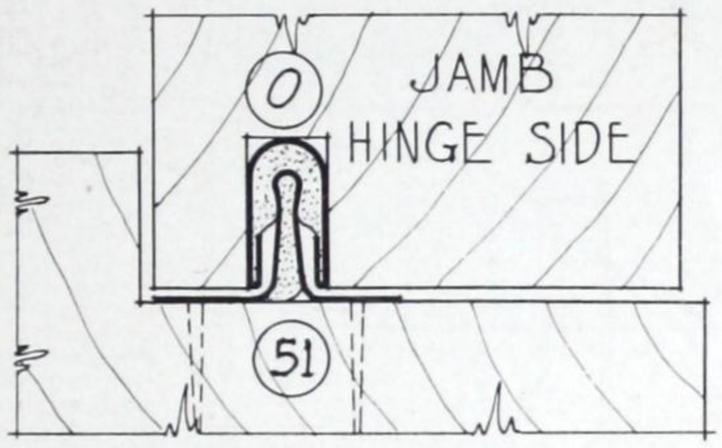
SCALE—ONE-QUARTER AND FULL SIZE

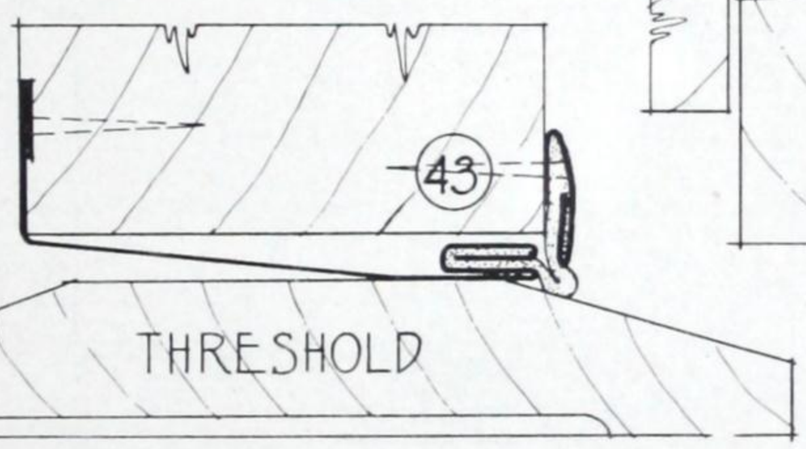


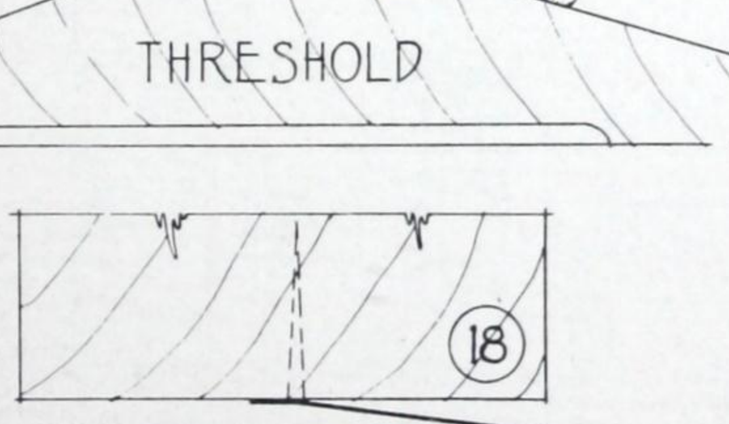
ONE-QUARTER FULL SIZE





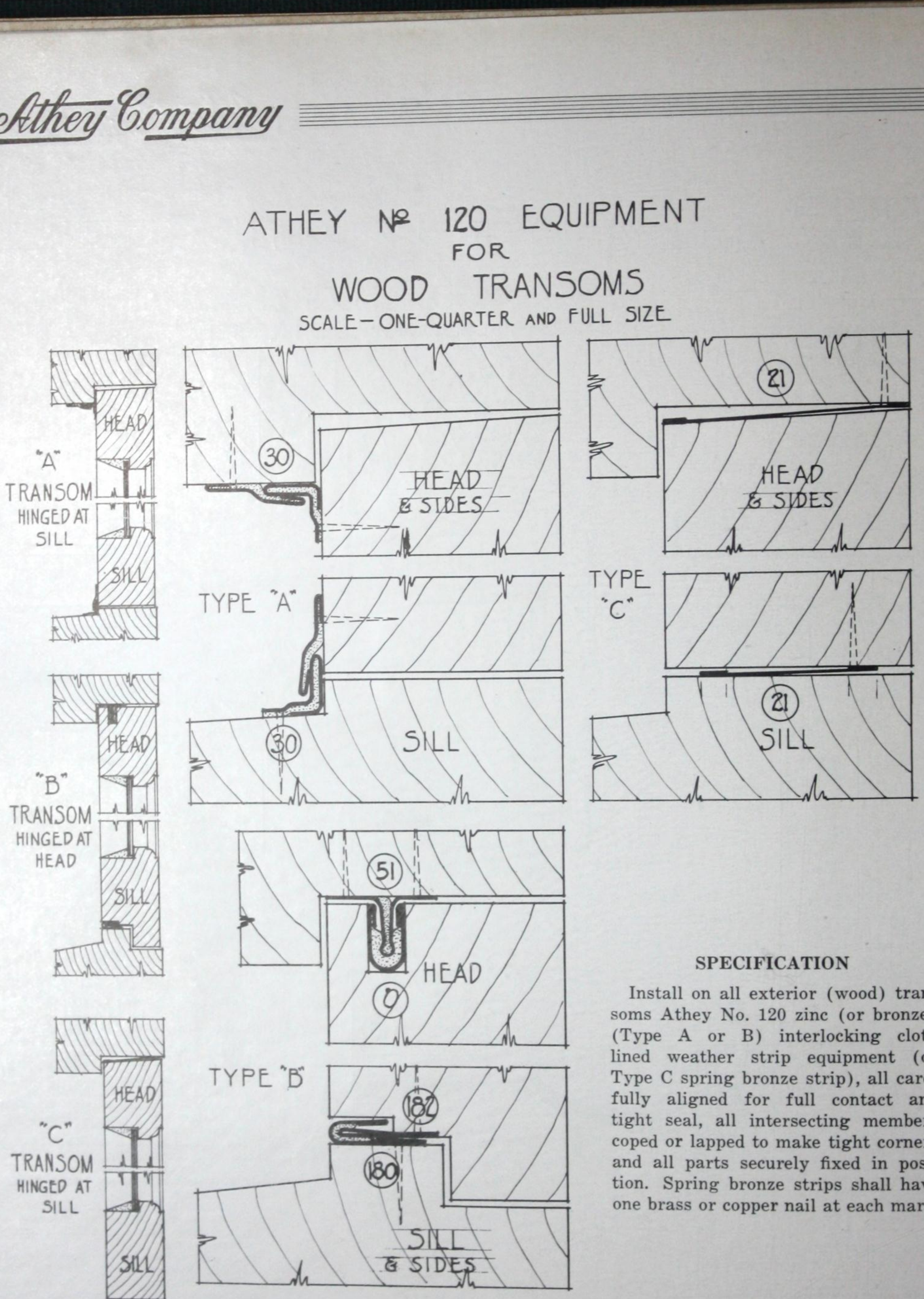





18
72

ATHEY № 120 EQUIPMENT FOR WOOD TRANSOMS

SCALE – ONE-QUARTER AND FULL SIZE



ONE-QUARTER FULL SIZE

FULL SIZE

SPECIFICATION

Install on all exterior (wood) transoms Athey No. 120 zinc (or bronze) (Type A or B) interlocking cloth lined weather strip equipment (or Type C spring bronze strip), all carefully aligned for full contact and tight seal, all intersecting members coped or lapped to make tight corners and all parts securely fixed in position. Spring bronze strips shall have one brass or copper nail at each mark.

A

Head	30
Jambs	30
Sill	30

B

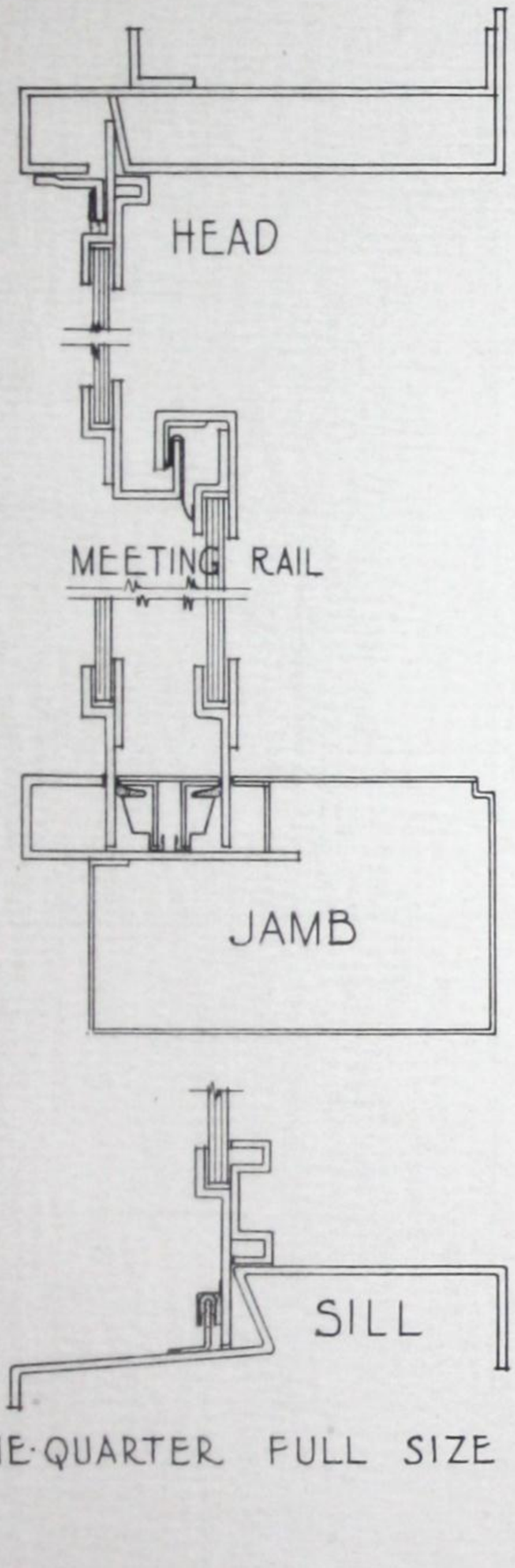
Head	0 and 51
Jambs	180 and 182
Sill	180 and 182

C

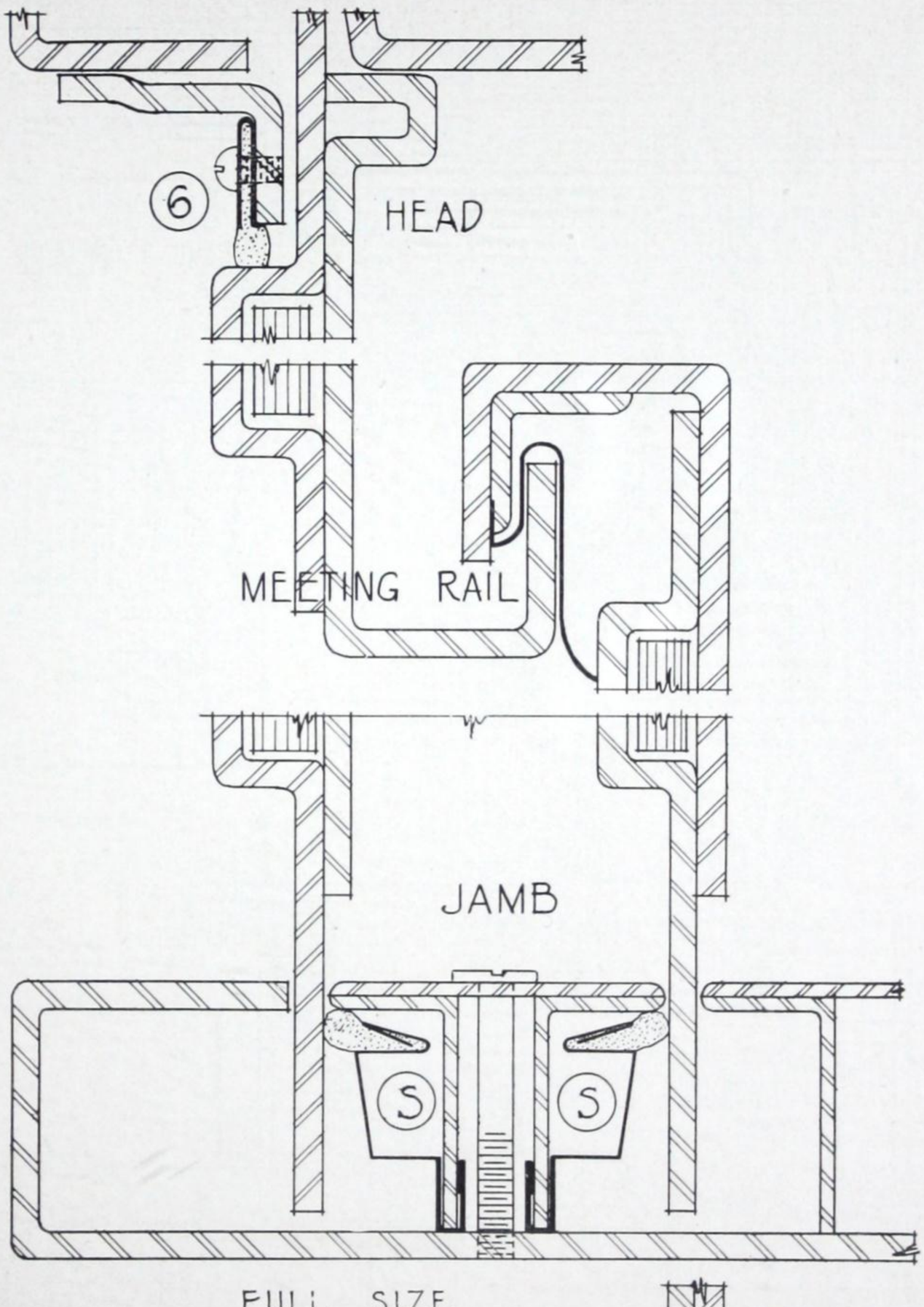
Head	21
Jambs	21
Sill	21

ATHEY Nº 130 EQUIPMENT FOR DOUBLE-HUNG STEEL WINDOWS

SCALE—ONE-QUARTER AND FULL SIZE



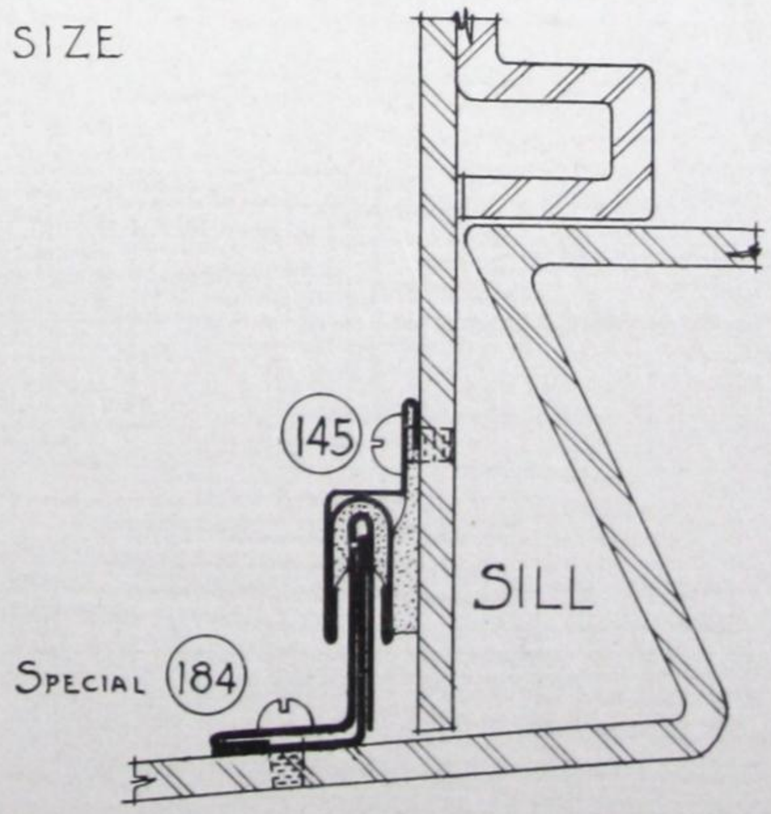
ONE-QUARTER FULL SIZE



FULL SIZE

Head	6
Jamb	S
Sill	145 and 184

BRONZE			ZINC	
No.	Gauge	Thickness in Inches	Gauge	Thickness in Inches
6	25	.0179	9	.018
145	25	.0179	9	.018
184	25	.0179	9	.018
S	30	.010	....	....

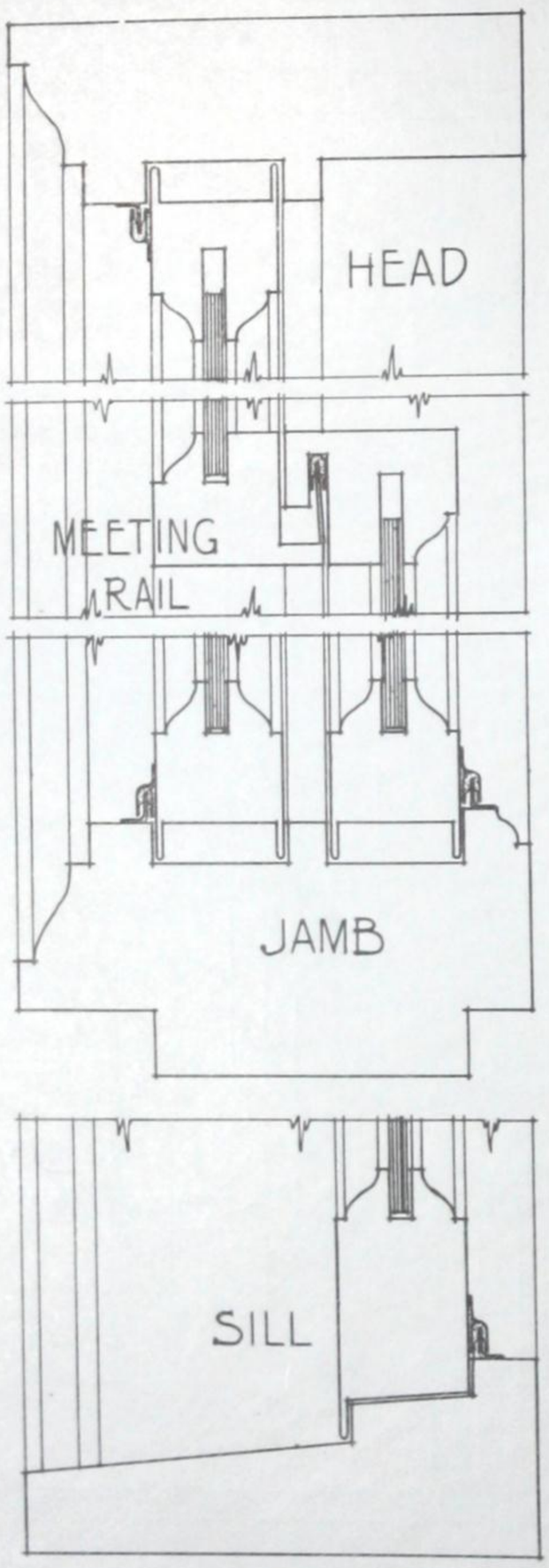


SPECIFICATION

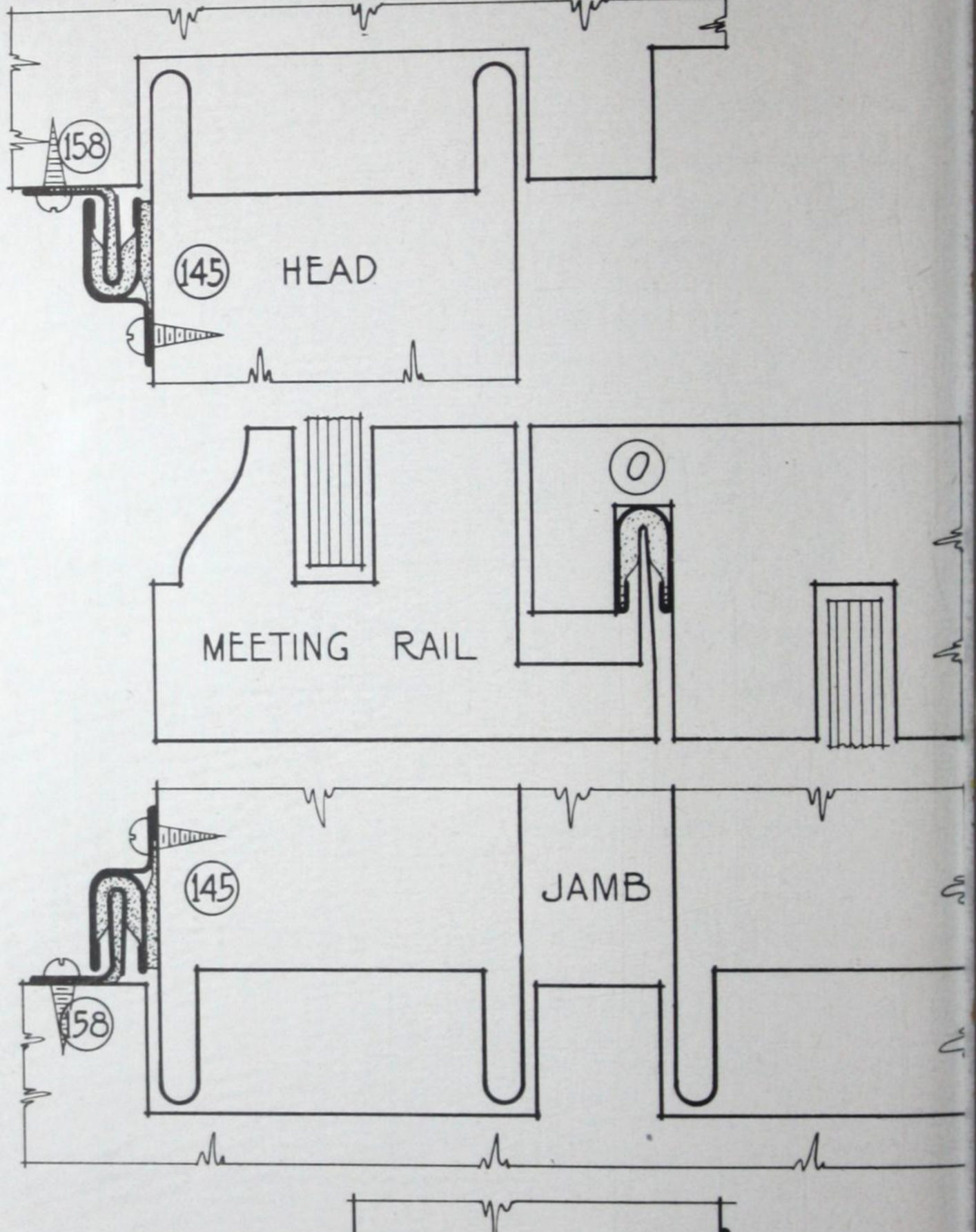
Install on all double-hung steel windows (of solid metal type) Athey No. 130 (zinc or bronze) cloth lined weather strip equipment (for—state name or make of—window) all carefully aligned for full contact and tight seal and all parts securely fixed in position.

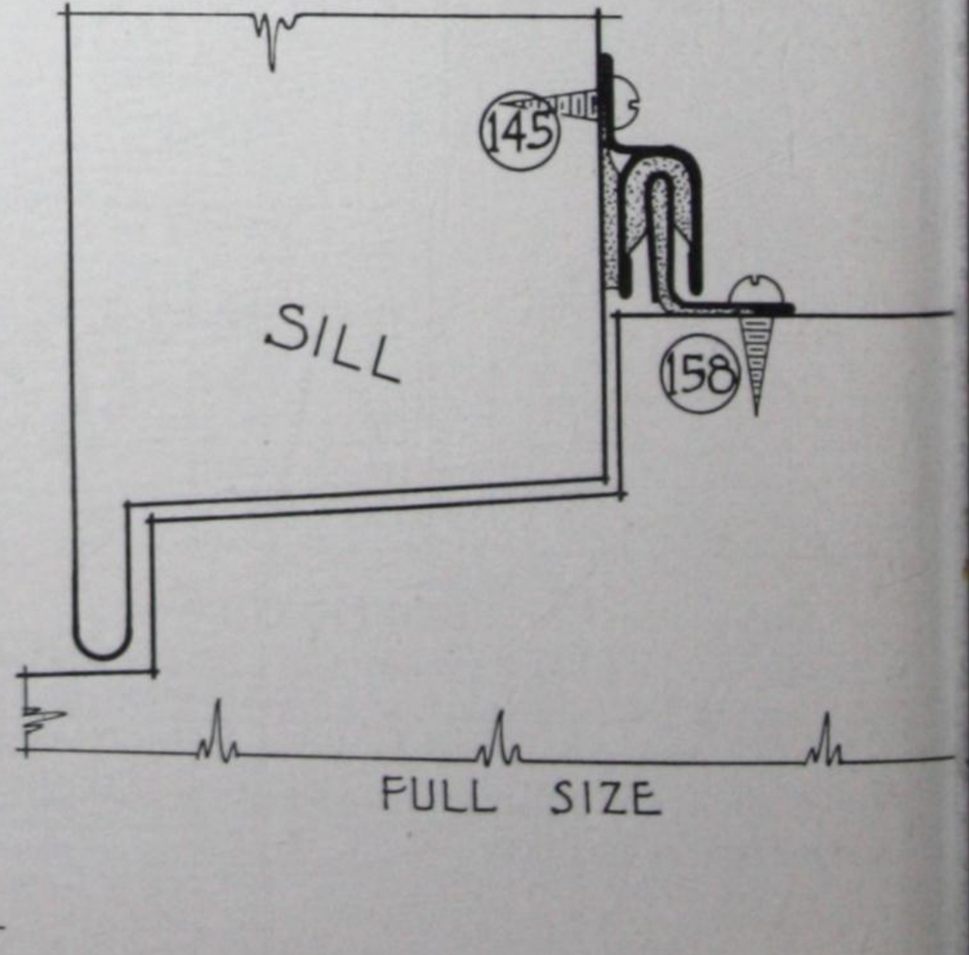
ATHEY Nº 140 EQUIPMENT
FOR
HOLLOW METAL DOUBLE-HUNG WINDOWS

SCALE—ONE-QUARTER AND FULL SIZE



ONE-QUARTER FULL SIZE





FULL SIZE

Heads and Sides of Upper Sash	145 and 158
Sill and Sides of Lower Sash	145 and 158
Meeting Rail	0

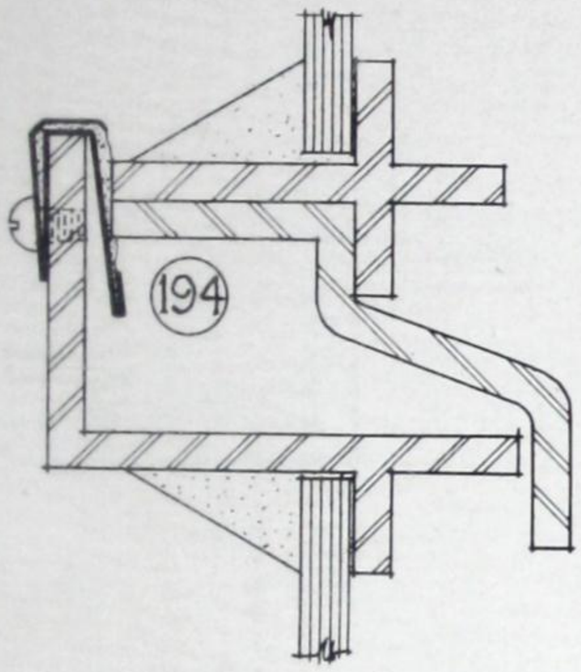
BRONZE			ZINC	
No.	Gauge	Thickness in Inches	Gauge	Thickness in Inches
0	25	.0179	9	.018
145	25	.0179	9	.018
158	25	.0179	9	.018

SPECIFICATION

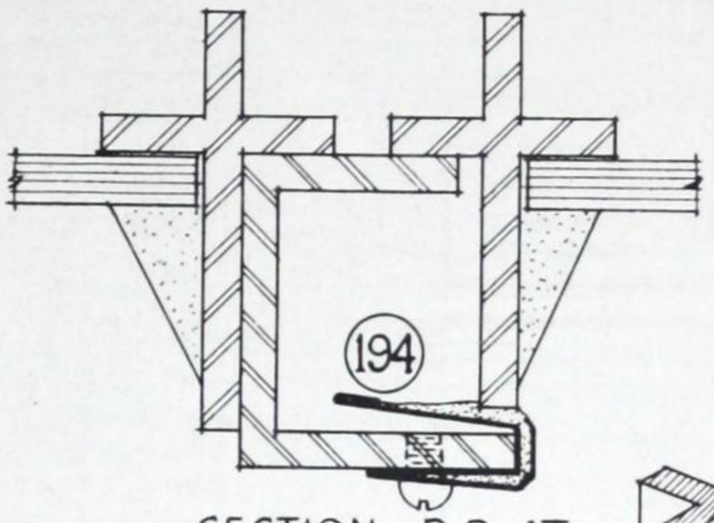
Install on all hollow metal double-hung windows Athey No. 140 interlocking cloth lined weather strip equipment, all carefully aligned for full contact and tight seal, all intersecting members mitred at corners and all parts securely fixed in position, using sheet metal screws. For copper or bronze windows provide bronze strips and for galvanized sheet metal windows provide lead-coated sheet steel strips.

ATHEY Nº 150 EQUIPMENT FOR STEEL FACTORY SASH

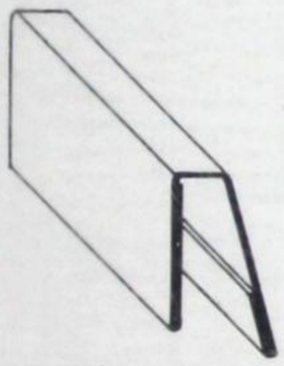
SCALE – FULL SIZE



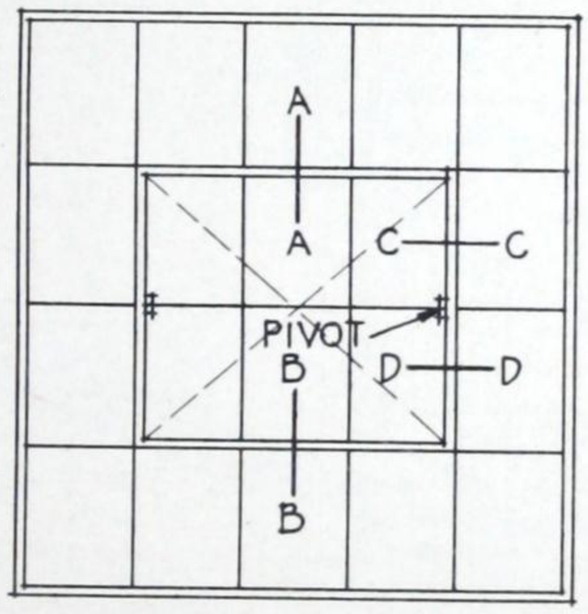
SECTION A-A AT TOP OF VENTILATOR



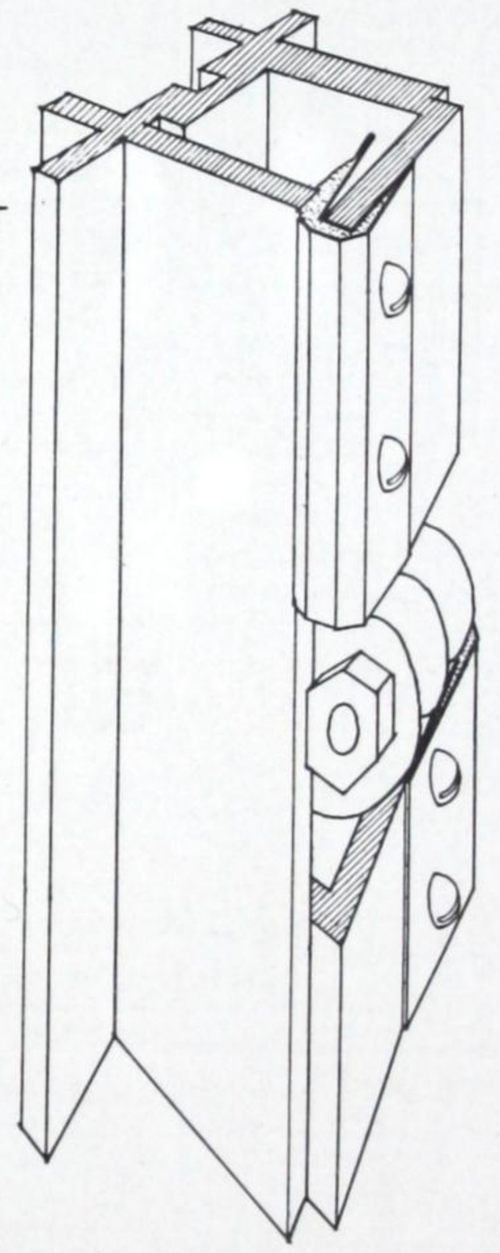
SECTION D-D AT JAMB BELOW PIVOT



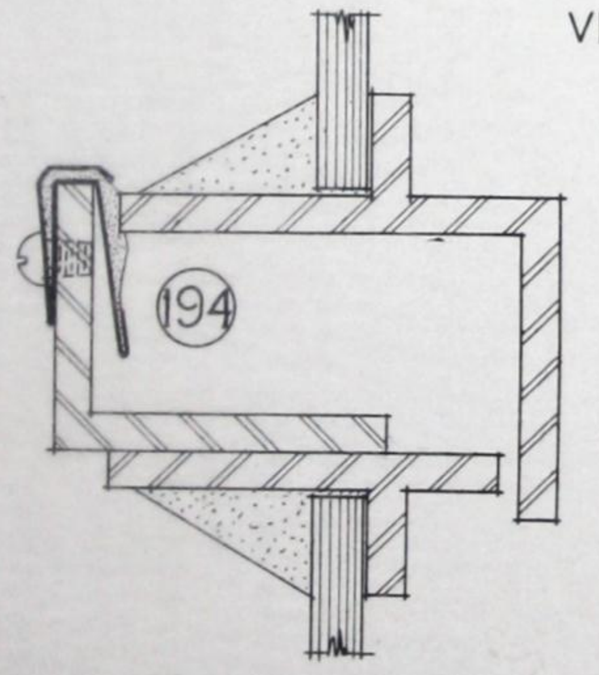
BRONZE Nº 198 USED ON HINGE SIDE OF CASEMENT SASH



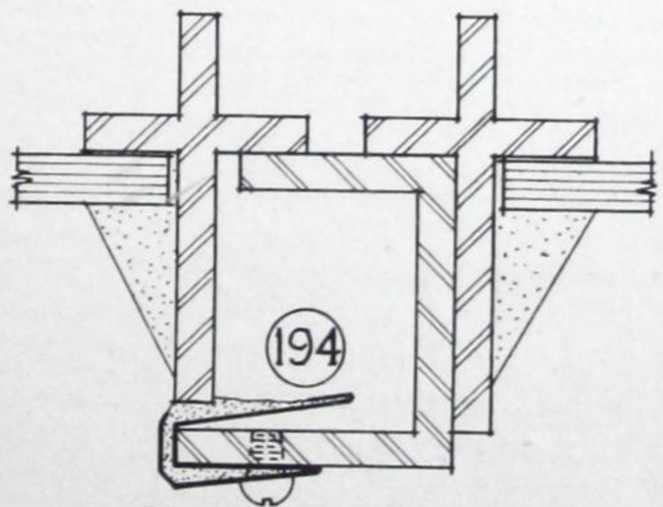
STANDARD UNIT WITH VENTILATOR IN CENTER



VIEW OF VENTILATOR AT PIVOT



SECTION B-B AT BOTTOM OF VENTILATOR



SECTION C-C AT JAMB ABOVE PIVOT

FULL SIZE

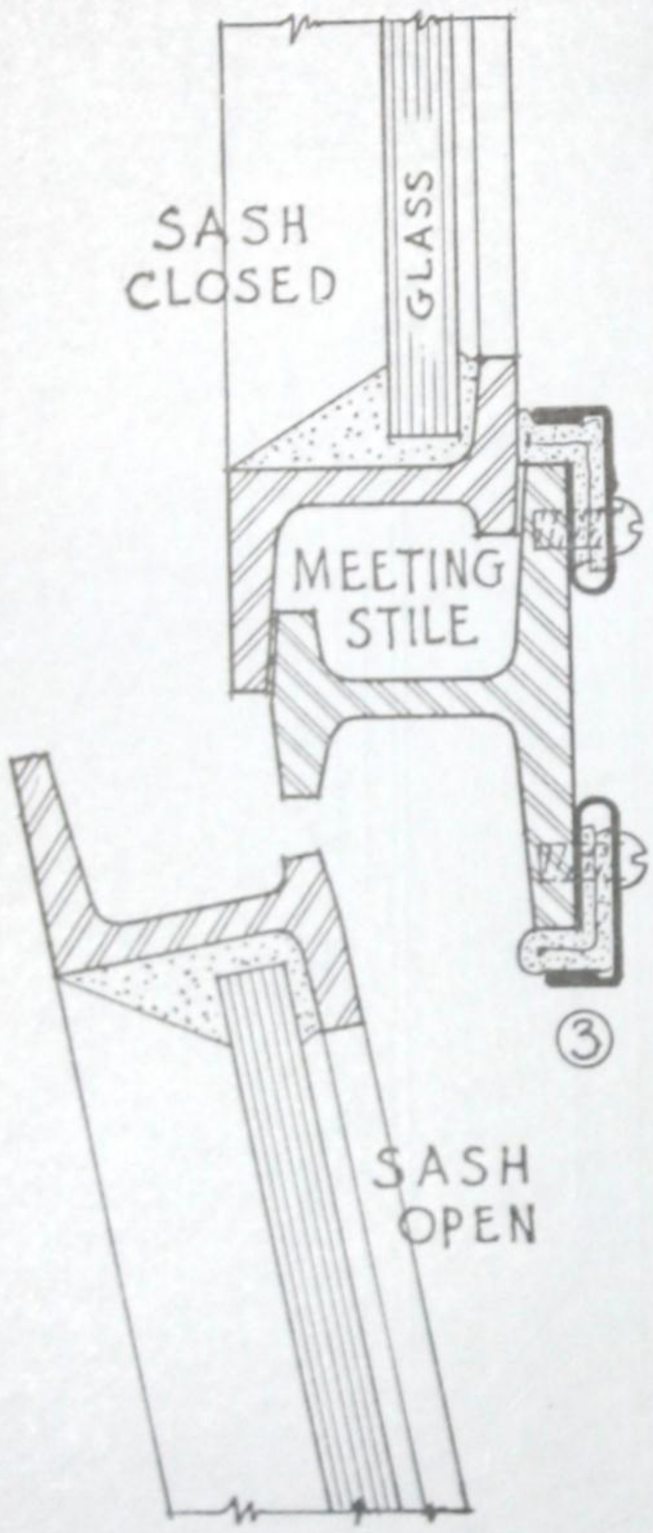
Top of Ventilator	194
Bottom of Ventilator	194
Jamb Above Pivot	194
Jamb Below Pivot	194

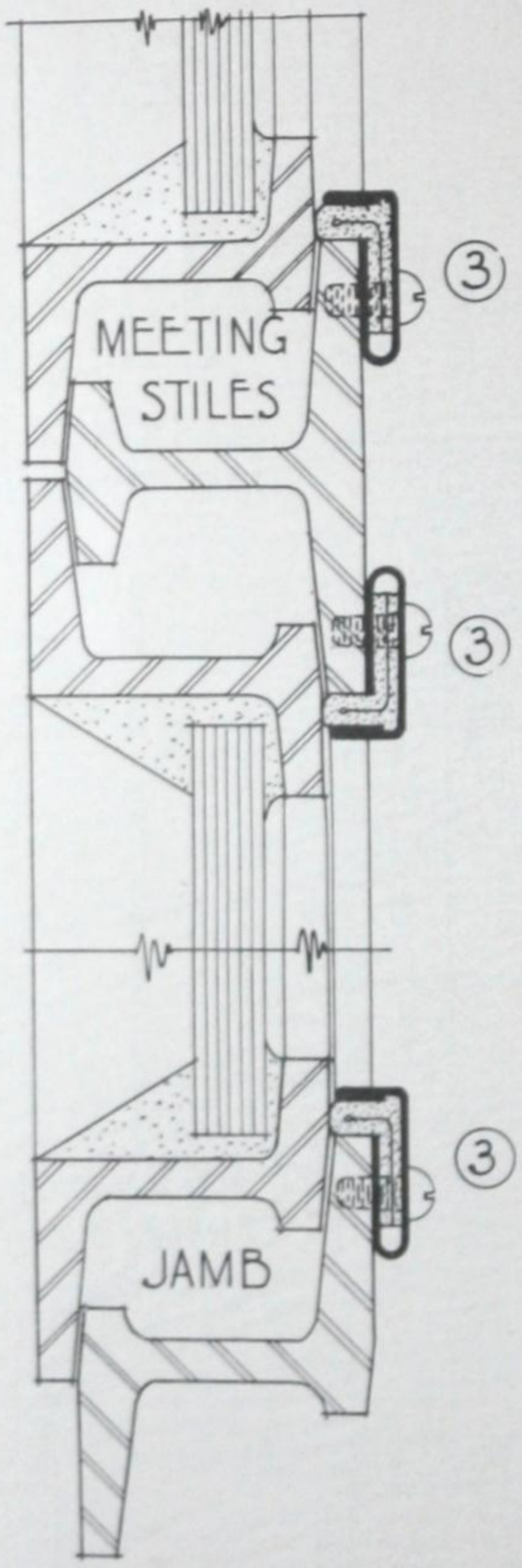
BRONZE		
No.	Gauge	Thickness in Inches
194	30	.010
198	30	.010

SPECIFICATION

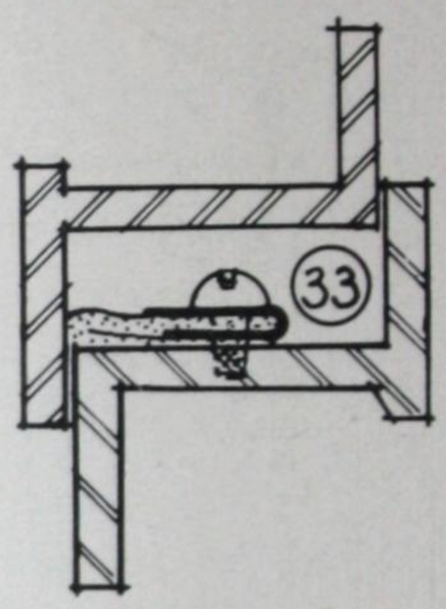
Install on all ventilator units of steel factory sash Athey No. 150 bronze cloth lined weather strip equipment, all carefully aligned for full contact and tight seal, all intersecting members mitred and all parts securely fixed in position, using self-tapping screws.

ATHEY № 160 EQUIPMENT
FOR
COTTAGE TYPE STEEL CASEMENTS
SCALE – FULL SIZE



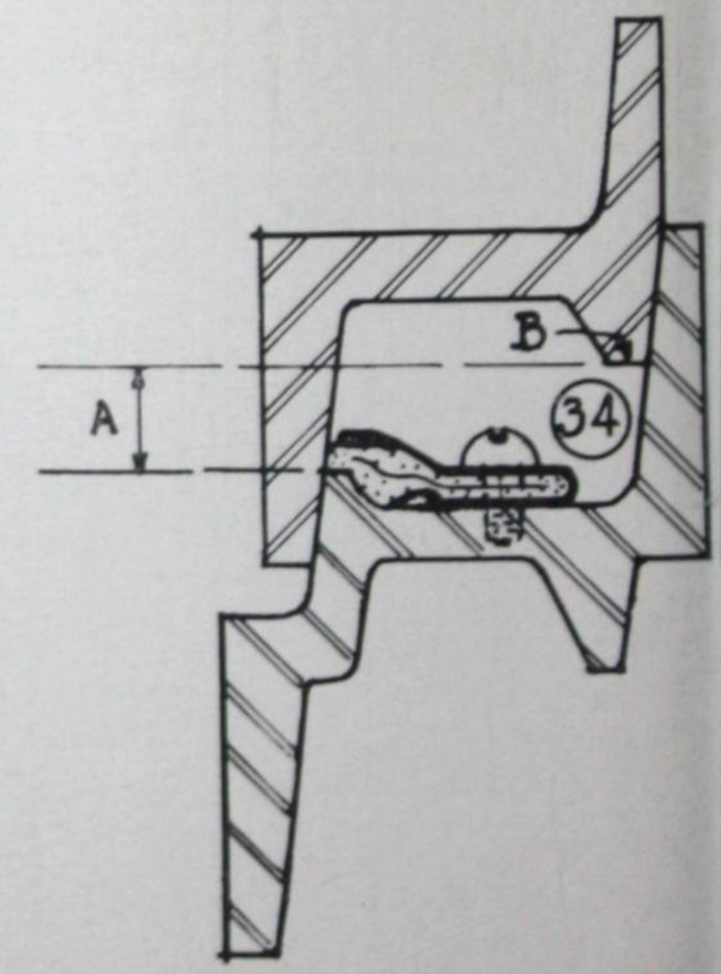


No. 3 strip as applied to frame and weather bar member of casement sash where screens or trim do not interfere with this type of installation.



Suggestion for weather stripping casement windows where screens or wood trim prevent installation of No. 3 strip to face of weather bar.

No. 33 Bronze and Felt weather strip as applied inside of channel on Cottage Casement sash.



No. 34 Bronze and felt strip can also be applied to inside of channel on the above type of casement sash provided there is ¼" clearance at "A" to permit sash at "B" to pass over strip.

Head	3
Transom Bar	3
Sill	3
Jamb	3
Meeting Stiles	3

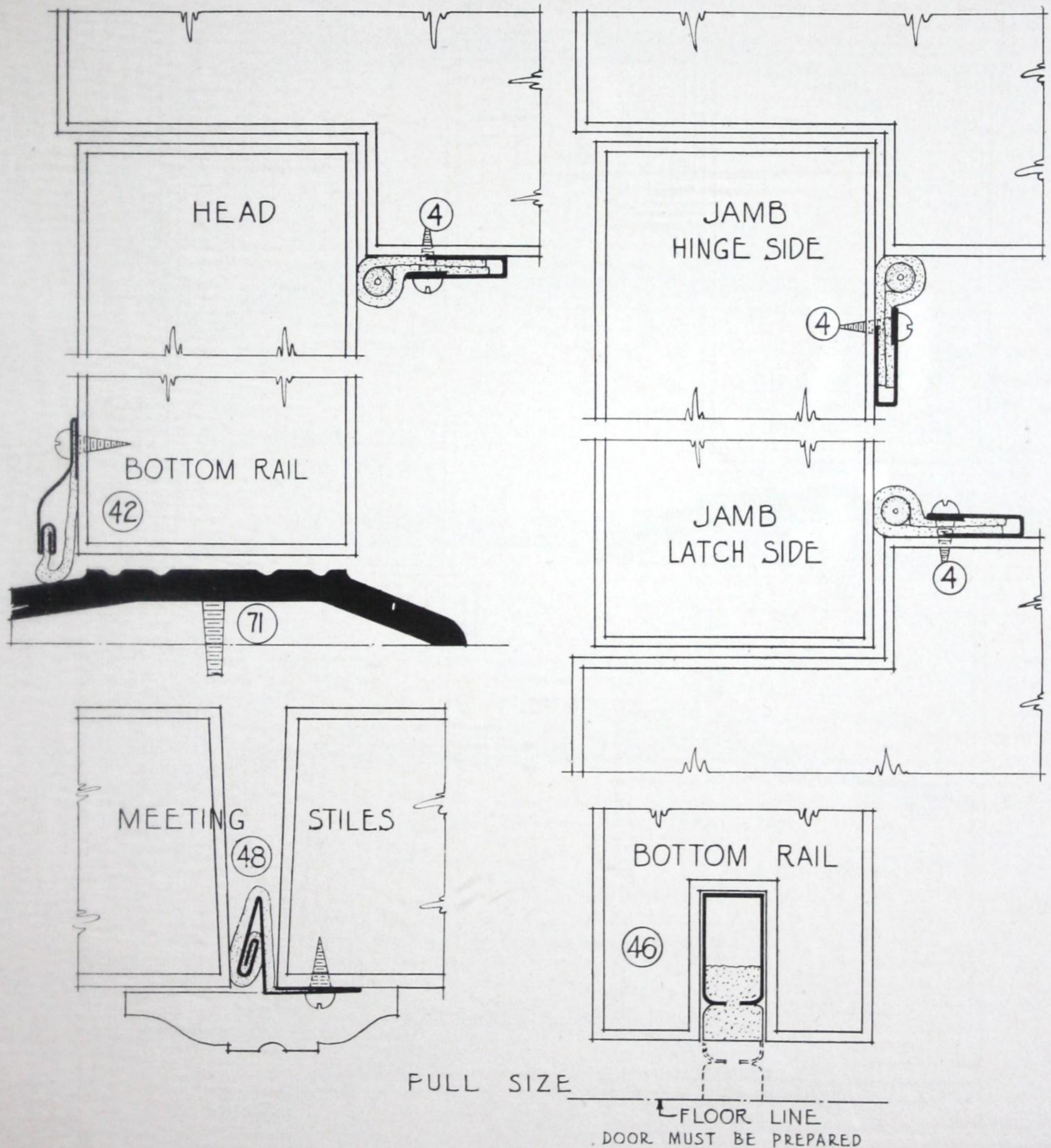
BRONZE		
No.	Gauge	Thickness in Inches
3	26	.015

SPECIFICATION

Install on all (cottage type) steel casement windows Athey No. 160 bronze cloth-lined weather strip equipment, all carefully aligned for full contact and tight seal, all intersecting members mitred and all parts securely fixed in position, using self-tapping screws.

ATHEY № 170 EQUIPMENT
FOR
METAL CLAD OR HOLLOW METAL FIRE DOORS

SCALE— FULL SIZE



FULL SIZE

FLOOR LINE

DOOR MUST BE PREPARED TO RECEIVE NO. 46 STRIP

Head	4
Jambs	4
Bottom of Door	42 and 71
Bottom of Door	46
Meeting Stiles	48

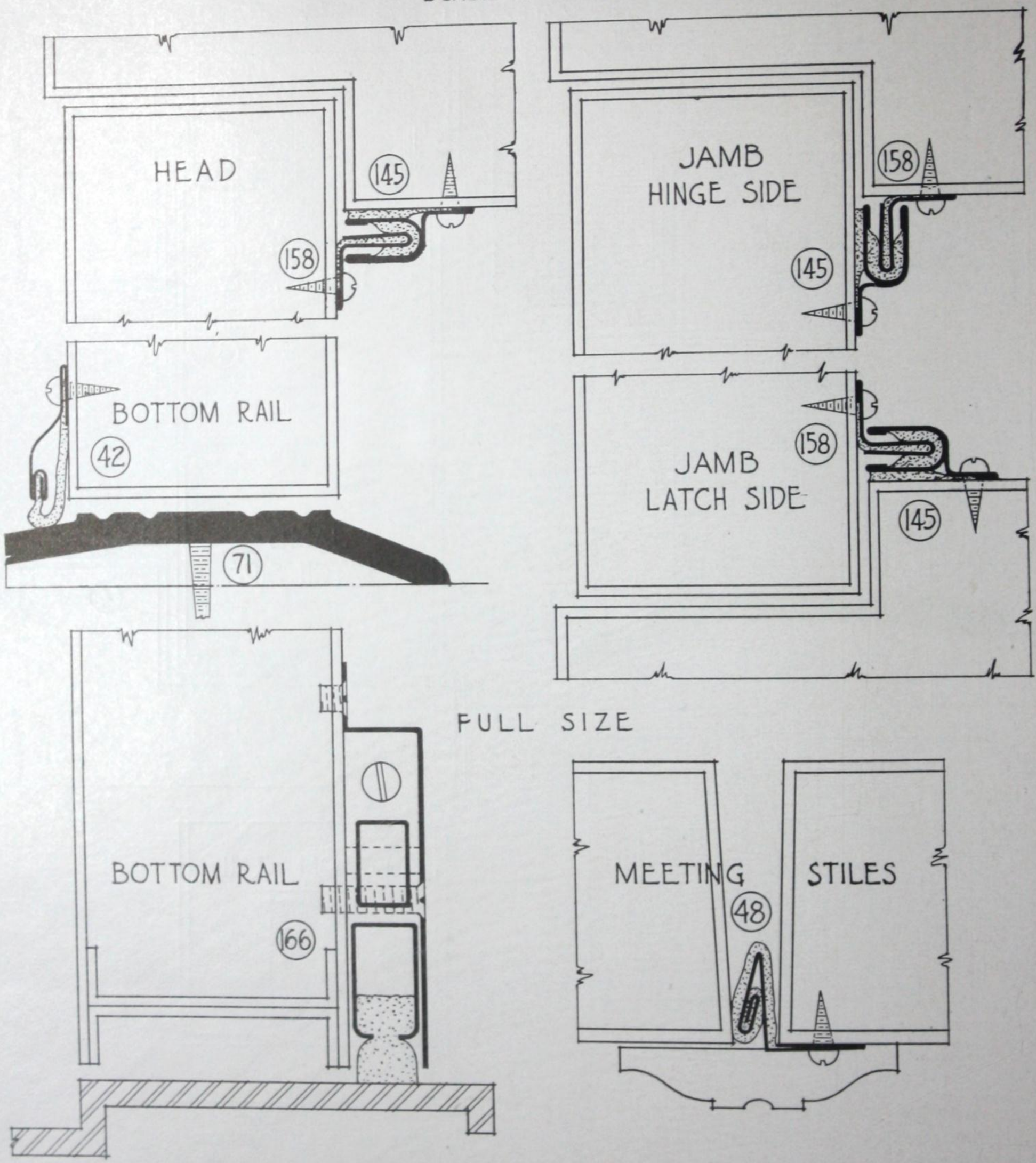
BRONZE			ZINC	
No.	Gauge	Thickness in Inches	Gauge	Thickness in Inches
4	25	.0179	9	.018
42	28	.0125	....	....
46	....	....	....	....
48	30	.010	....	....
71	Extruded Brass		....	....

SPECIFICATION

Install on all metal clad and/or hollow metal (fire) doors Athey No. 170 (zinc or bronze) cloth lined weather strip equipment, using No. 42 bottom strip and No. 71 extruded brass threshold (or other threshold as shown in catalog) (or No. 46 automatic closing door bottom) all carefully aligned for full contact and tight seal and all parts securely fixed in position.

ATHEY № 180 EQUIPMENT FOR HOLLOW METAL EXIT DOORS

SCALE- FULL SIZE



FULL SIZE

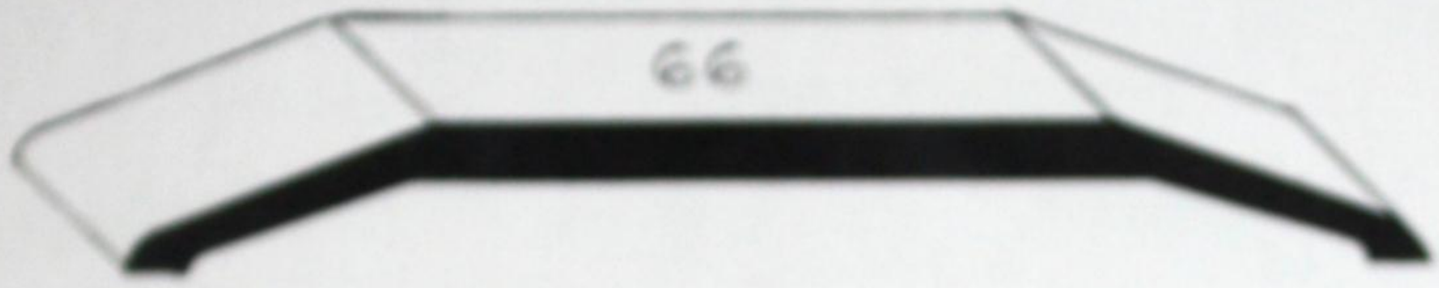
Head	145 and 158
Jambs	145 and 158
Bottom	42 and 71
Bottom	166
Meeting Stiles	48

BRONZE			ZINC	
No.	Gauge	Thickness in Inches	Gauge	Thickness in Inches
145	25	.0179	9	.018
158	25	.0179	9	.018
42	28	.0125	....	....
48	30	.010	....	....
71	Extruded Brass			
166	Steel			

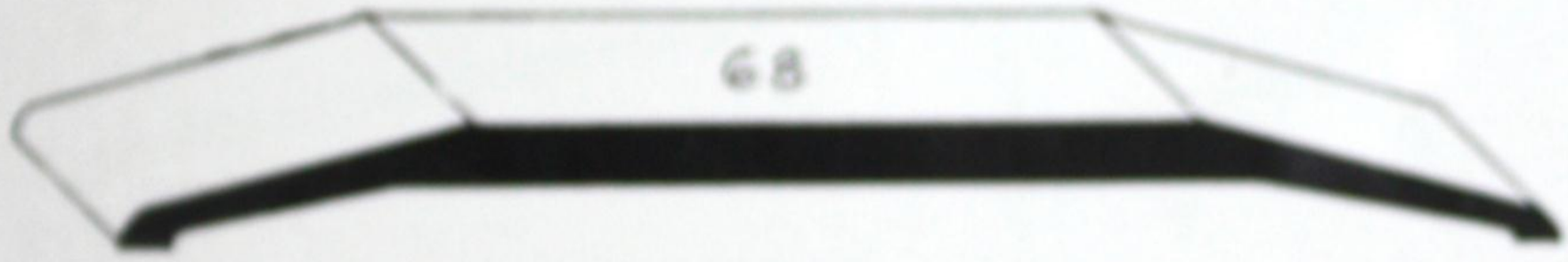
SPECIFICATION

Install on all hollow metal exit (or fire) doors Athey No. 180 (zinc or bronze) cloth lined weather strip equipment, using No. 42 bottom strip and No. 71 extruded brass threshold (or other threshold shown in catalog or No. 166 automatic closing door bottom) all carefully aligned for full contact and tight seal and all parts securely fixed in position

FULL SIZE SECTIONS OF THRESHOLDS







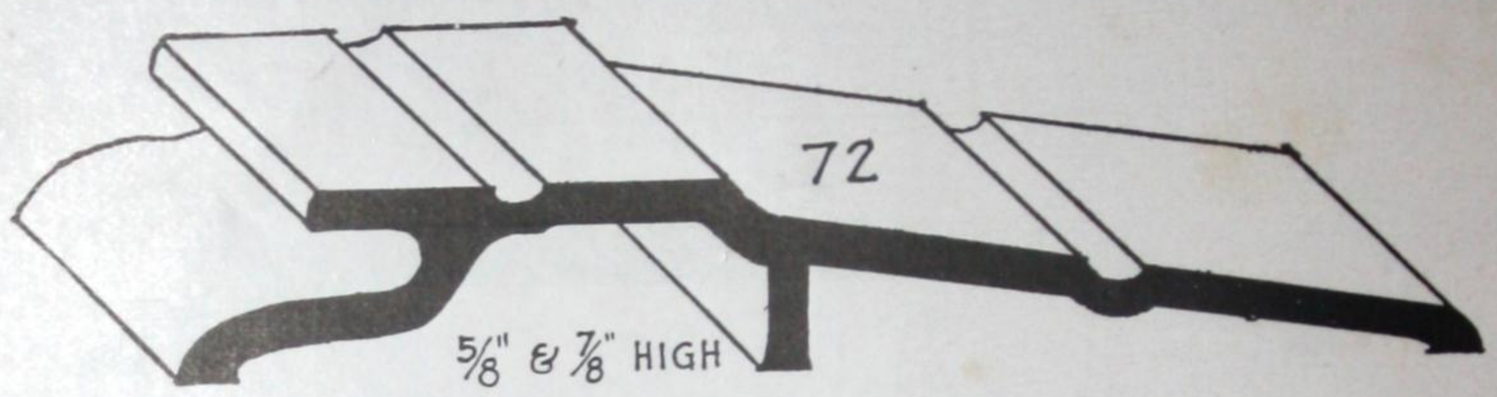


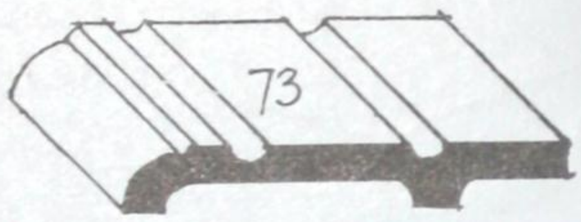


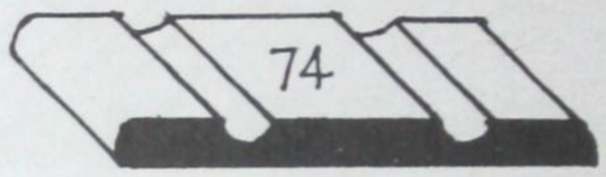


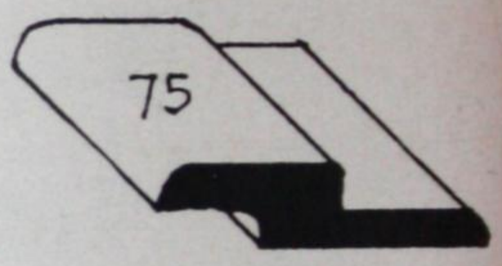
ACTUAL SIZE

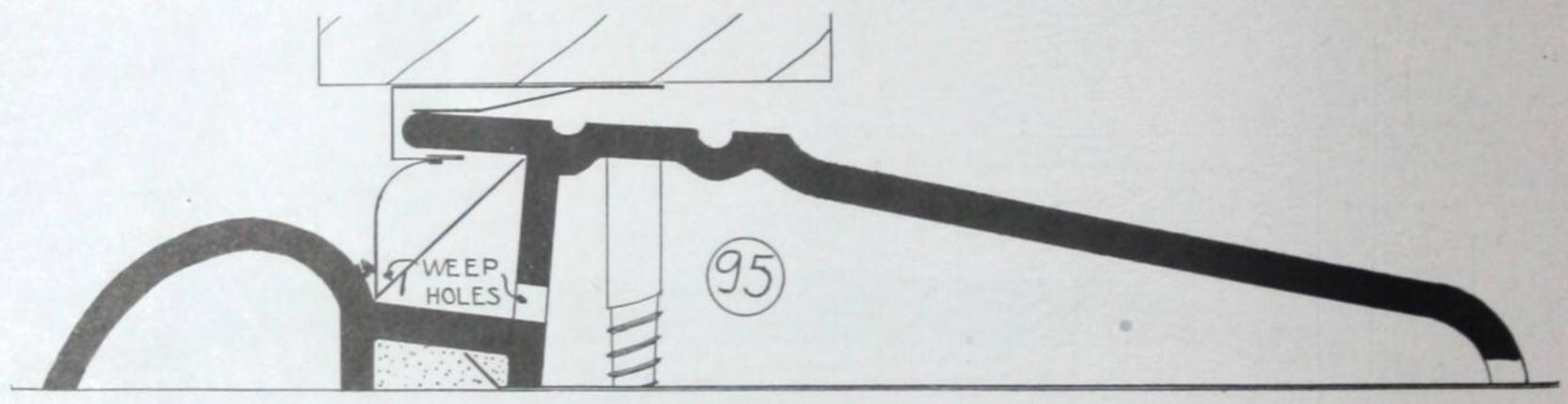
FULL SIZE SECTIONS OF THRESHOLDS

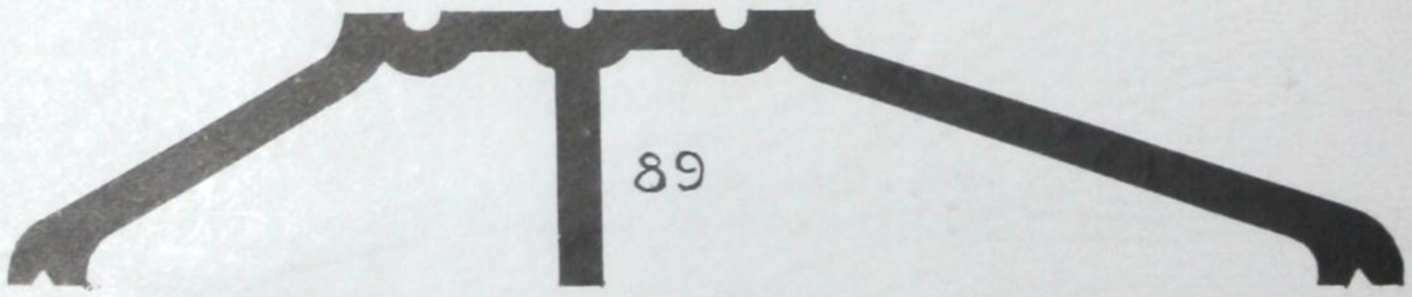


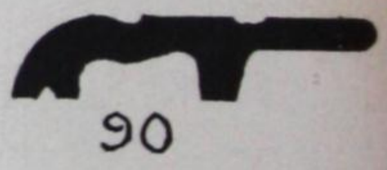




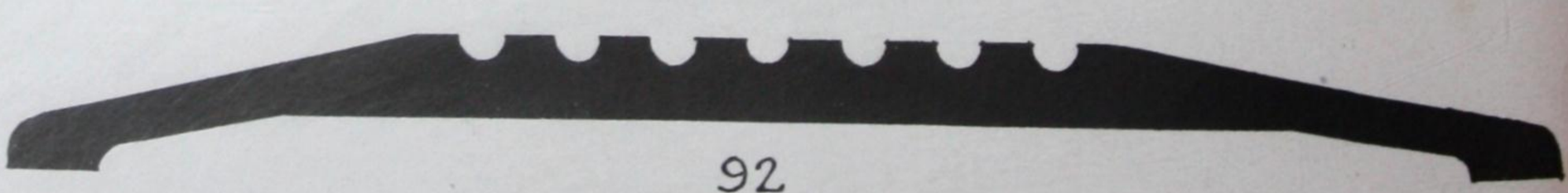


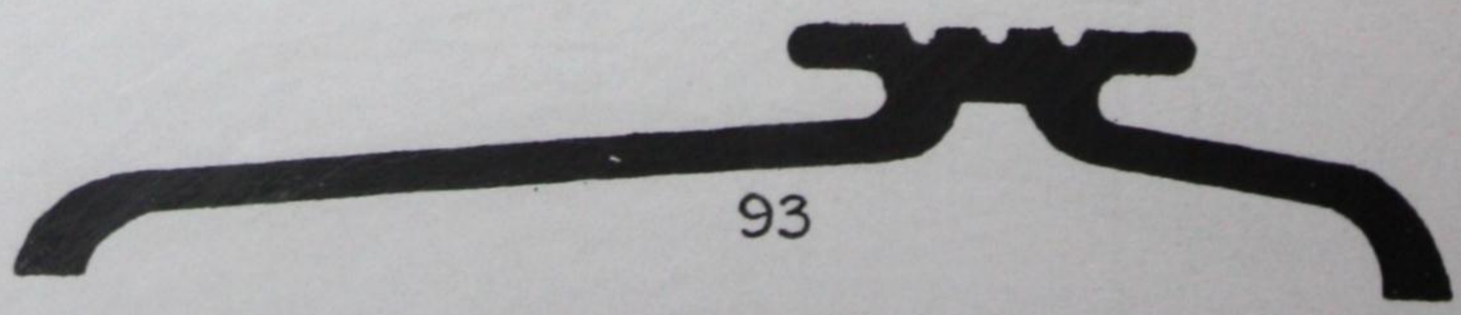












ACTUAL SIZE

Athey Company

OTHER ATHEY QUALITY PRODUCTS

- Athey Sealtite Caulking Compound
- Athey Pleated Cloth Window Shade
- Athey Disappearing Skylight Shade
- Athey Venetian Blinds

INFORMATION AND PRICES GLADLY GIVEN ON REQUEST

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Chicago, Illinois.

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Please have a representative call to give me information and prices . . .

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QUALITY
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Comfort

IS IN THE AIR



BRYANT HEATING AND AIR CONDITIONING



HE'S WEATHER WISE

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SA 2100 Printed in U. S. A.

INDOOR COMFORT

VINTER . . . . SUMMER . . . . SPRING . . . . AND FALL

★ ★ ★ ★ ★



The first attempt at "Air-Conditioning" was made by that prehistoric Caveman who first brought coals from the fire outside his cave to start a second fire "indoors." Heating, then as now, is the first and most important function in air-conditioning.

Not until recently has it become practical to give the same careful preparation to the air in which we live as to the food and water which we take into our bodies. Nevertheless, the need for pure, prepared air is equally basic and equally important. Now the science of air-conditioning is keeping pace with the progress of those other arts which contribute to our health, well-being, and pleasure.

Air-conditioning . . . the proper preparation of indoor air . . . calls for four operations in winter . . . Warming . . . Humidifying . . . Cleaning . . . and Circulating. It calls for at least two operations in spring and fall . . . Cleaning . . . Circulating; and for four operations in summer . . . Dehumidifying . . . Cooling . . . Cleaning . . . and Circulating.

In this catalog will be found descriptions and illustrations of a complete line of heating and air-conditioning equipment covering all domestic requirements.

Behind each piece of equipment stands the engineering skill, the thirty-year experience, and the nation-wide reputation of the pioneer organization in the field of gas heating.

★ ★ ★ ★ ★

THE BRYANT HEATER CO., 17825 ST. CLAIR AVE., CLEVELAND, OHIO

THE SIX FUNCTIONS OF AIR CONDITIONING

HEATING

Autumn, winter, and spring, in most sections of the United States, artificial heat is a necessity to human existence. Only one form of heating can be regarded as truly modern . . . . automatic heating of a type which calls for the minimum of human attention.

Gas is by all odds the ideal automatic fuel. It is supplied automatically as needed, without necessitating any storage on the premises. It requires neither tools nor thought. It is the most accurately and promptly responsive to mechanical control. With Bryant gas heating equipment "you can let your pup be your Furnace Man."

HUMIDIFYING

Humidified air protects lungs, nasal passages, and skin and makes the body less susceptible to winter-inspired colds and respiratory ailments. It goes far to prevent "after-dinner dopiness;" saves many a doctor bill, because, in a properly air-conditioned home, winter is no longer "Sickness Season."

CLEANING

Outdoor air, even in suburban districts, carries pollen, bacteria-laden dust, smoke-generated grime, gasoline fumes, and other impurities. When these impurities are brought indoors, the residents of a house cannot avoid their harmful action on nasal passages, lungs and skin. Every housekeeper realizes how much this floating dirt contributes to the labors of housekeeping.

Because gas is the cleanest of all fuels, generating no grime, dust, or odors, it places the least load on the cleaning equipment in an air-conditioning system and sends no dirt into the circulating ducts.

CIRCULATING

If indoor air is stagnant, it "stratifies". . . . the temperature varies widely and dangerously between floor level and ceiling; pockets of dead air form in corners; odors persist unnecessarily long because they are not diffused and dissipated.

When air is kept in gentle motion, not only are stratification, air-pockets, and odors dissipated, but bodily comfort is increased. In summer, the latter is particularly noticeable because moving air accelerates evaporation from the skin.

DEHUMIDIFYING AND COOLING

It is a recognized fact that the greatest summer discomfort results from humidity. The Bryant Summer Air Conditioning equipment is designed to attack this problem in the most direct manner by first removing the moisture from air, and subsequently, cooling the air. Each operation is independently controlled to meet your individual idea of comfort.

BRYANT

AIR CONDITIONING EQUIPMENT

THE BRYANT WINTER AIR CONDITIONING UNIT

provides four functions of air-treatment . . . Warming . . . Humidifying . . . Cleaning . . . Circulating. It utilizes gas as the operating medium and provides for a completely practical and economically BALANCED performance of the four functions.

The exclusive use of gas in this unit makes possible the simplest design from an engineering standpoint, because no compromise features are required in its planning and construction.

★ ★ ★ ★

THE BRYANT HUMIDIFIER

s for a home without air conditioning equipment. It is a practically priced unit for installation in a basement to supply humidified air to he rooms above.

he Bryant Humidifier circulates a controlled upply of cleaned, WARMED, and humidified air hich diffuses in the home the amount of oisture that health and comfort require. It can e installed in any house, no matter what fuel used for heating.

HE BRYANT DUALATOR

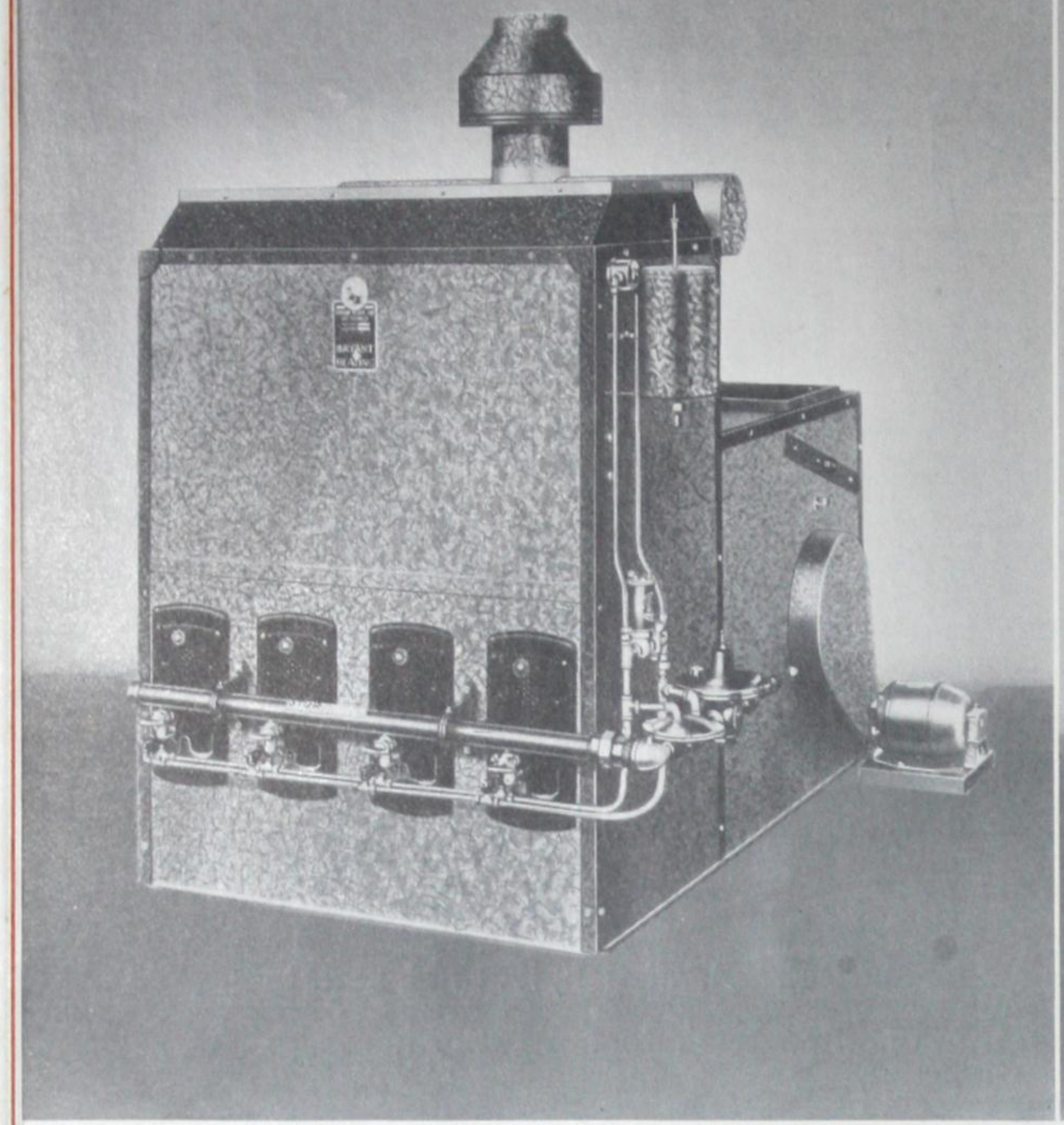
an air conditioning unit for all-season operaon, for use in connection with a separate heating plant from which it receives heat in the form of steam or hot water. It performs all four functions of winter air-conditioning and assists in the two functions . . . cooling and dehumidifying . . . which are limited to summer use.

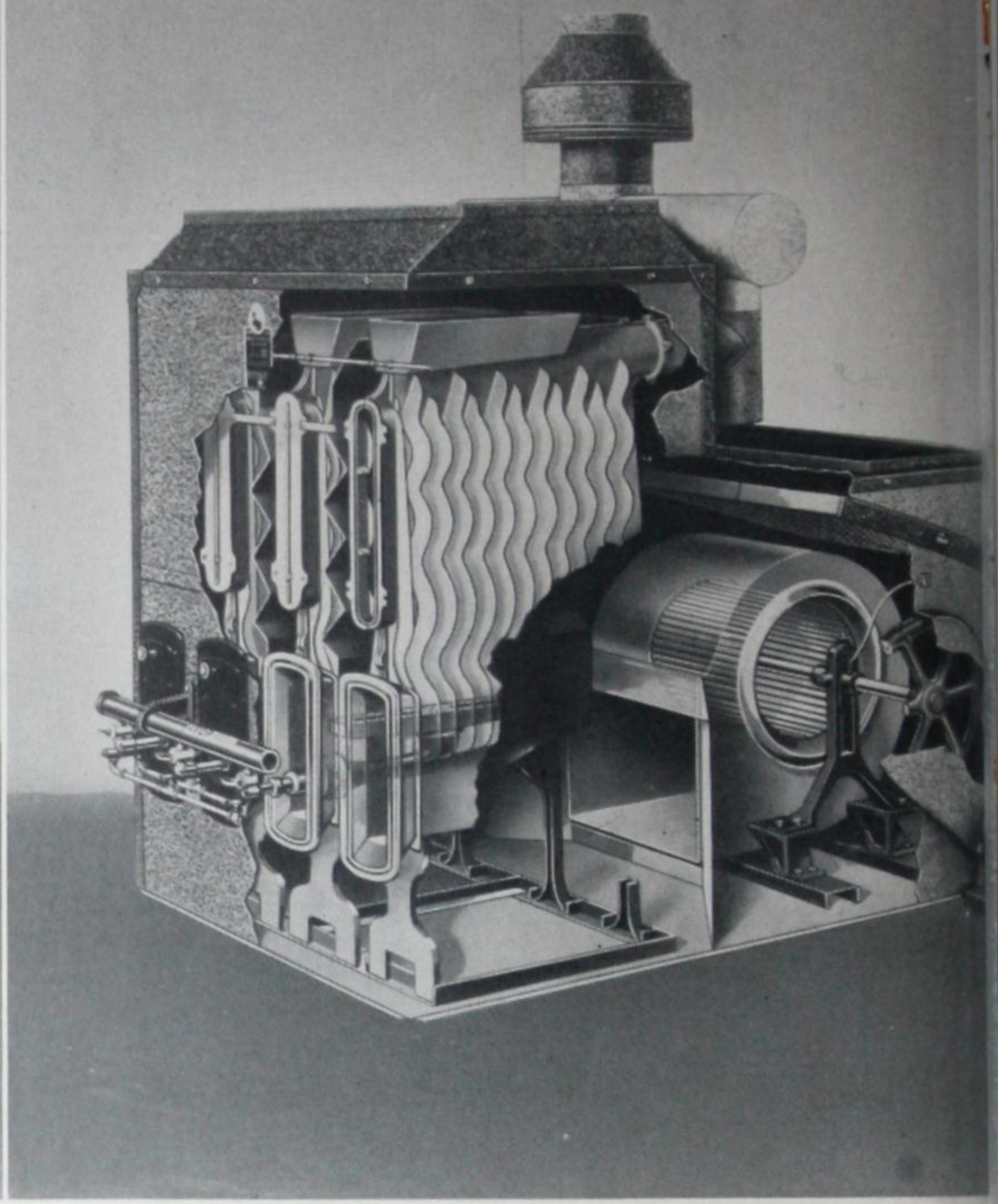
In a home heated by radiation, it can be used to supply conditioned air to the entire house or any selected rooms.

BRYANT SUMMER AIR CONDITIONING EQUIPMENT

The human body is both a heating plant and a cooling system. However, in the winter it demands heat additional to that which it is able to generate. Likewise, in the summer, its effort to cool itself is often inadequate. There is this difference. In winter, the body cannot furnish adequate heat. In summer it is possible to reduce body heat by evaporation. But evaporation cannot be carried on in a saturated atmosphere . . . and in the summer the air is often near saturation.

Utilizing a dehumidifying unit employing moisture adsorbent . . . Silica Gel . . . to rid the air of excessive humidity, as well as a cooling unit, Bryant Summer Air Conditioning equipment is adapted to establish an ideal indoor climate during the summer.





THE BRYANT WINTER AIR CONDITIONER

FOR AUTOMATIC PREPARED-AIR HEATING

In the Bryant Winter Air Conditioner the familiar principle of warm air heating has been modernly amplified to include humidifying, cleaning of air, and mechanical circulation.

Air entering the unit passes first through filters of generous size which remove practically all floating impurities. These filters are so placed as to be easily accessible for inspection or cleaning.

Under pressure of a large-capacity, low-speed, circulating fan, the cleaned air then passes into a heating chamber which provides a maximum amount of exterior heating surface by virtue of the staggered-and-ribbed design of the sections, a design which achieves maximum efficiency of fuel consumption. These sections are of high quality cast iron, and, therefore, safe from rust and corrosion.

From the heating sections, the air passes over the humidifier, where it absorbs the proper healthful moisture content. The water-level in these pans is automatically maintained. The degree of humidity picked up at this point can be automatically controlled from the living floor.

The wholesomely tempered air, prepared in this manner, is gently circulated through the house, entering the various rooms through inconspicuous grilles. Through other grilles, the air is drawn back to the heating plant for recirculation.

THE BRYANT HUMIDIFIER



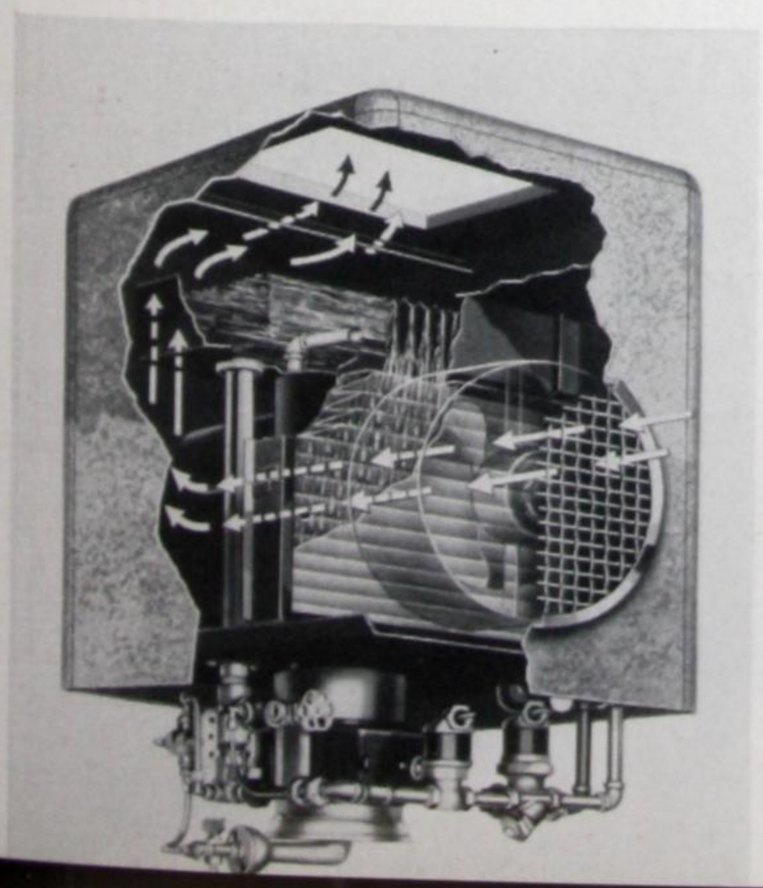
The BRYANT HUMIDIFIER is a simple and thoroughly practical four-purpose Unit.

It humidifies, cleans, warms, and circulates the air.

A fan-driven air-stream passes first through an accordion-shaped cleaning-screen, which is constantly kept moist with warm water, from which the air picks up its first moisture. Thence it passes around the jacket of the heater, where the air is warmed. Unlike other humidifiers, this unit delivers warmed air.

Above the heater-jacket, the air passes over an open pan of warmed water, which completes the heat-tempering and humidifying operation. Thence, under fan-pressure, the cleaned, humidified, and warmed air enters the rooms above.

A humidistat, placed above stairs, automatically controls the supply of gas, water, and air, at all times, and thus maintains the desired amount of humidity.



The Bryant Humidifier is preferably installed in the basement. Air ducts are then run to a point where the conditioned air can be discharged up through the floor into some central part of a house, such as a hallway.

Air is returned to the humidifier, if recirculation is desired, from some far corner of one or more first floor rooms. The constant flow of fan-driven air, between the outlet and the return-air intake, maintains a gentle and healthful circulation which, in itself, contributes materially to comfort.

A Bryant Humidifier can be used in any house, old or new, having gas service, regardless of the type of heating being used, as it operates entirely independently of the heating plant.

THE BRYANT DUALATOR

The DUALATOR is an air conditioning unit which gets its heat supply from a steam or hot water boiler and supplies conditioned air to any desired portion of a home.

It performs all four functions of winter air-conditioning and assists in the two functions (marked with an asterisk) which are limited to summer operation.

IN WINTER

Cleaning	Heating
Circulating	Humidifying

IN ALL SEASONS

Cleaning	Circulating

IN SUMMER

Cleaning	*Cooling
Circulating	*Dehumidifying



The DUALATOR can be used in old homes or new, for all or part of the rooms, and with or without steam or hot-water radiation. The DUALATOR may be used to supplement an existing radiator heating system, and to circulate humidified and cleaned air that is also warmed to a comfortable degree. Where no radiation system exists the DUALATOR alone furnishes the entire supply of heat through its circulation of warmed, humidified, and cleaned air.



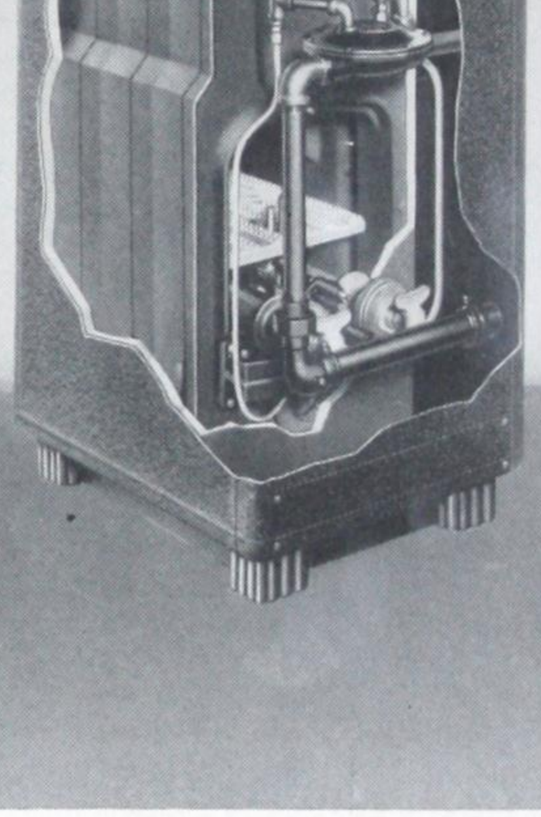
The Bryant Dualator is usually installed in the basement. The return air from the living floors enters the DUALATOR through a return duct at the rear of the cabinet. The air is first drawn through a filter, where it is thoroughly cleaned. Then it passes from the fan through the humidifier spray, and then, through the proportioning dampers which determine the proportion of this reconditioned air to be passed through the heat exchanger for heating. At the top of the cabinet is the air passage leading to the rooms above.

BRYANT AUTOMATIC GAS BOILERS

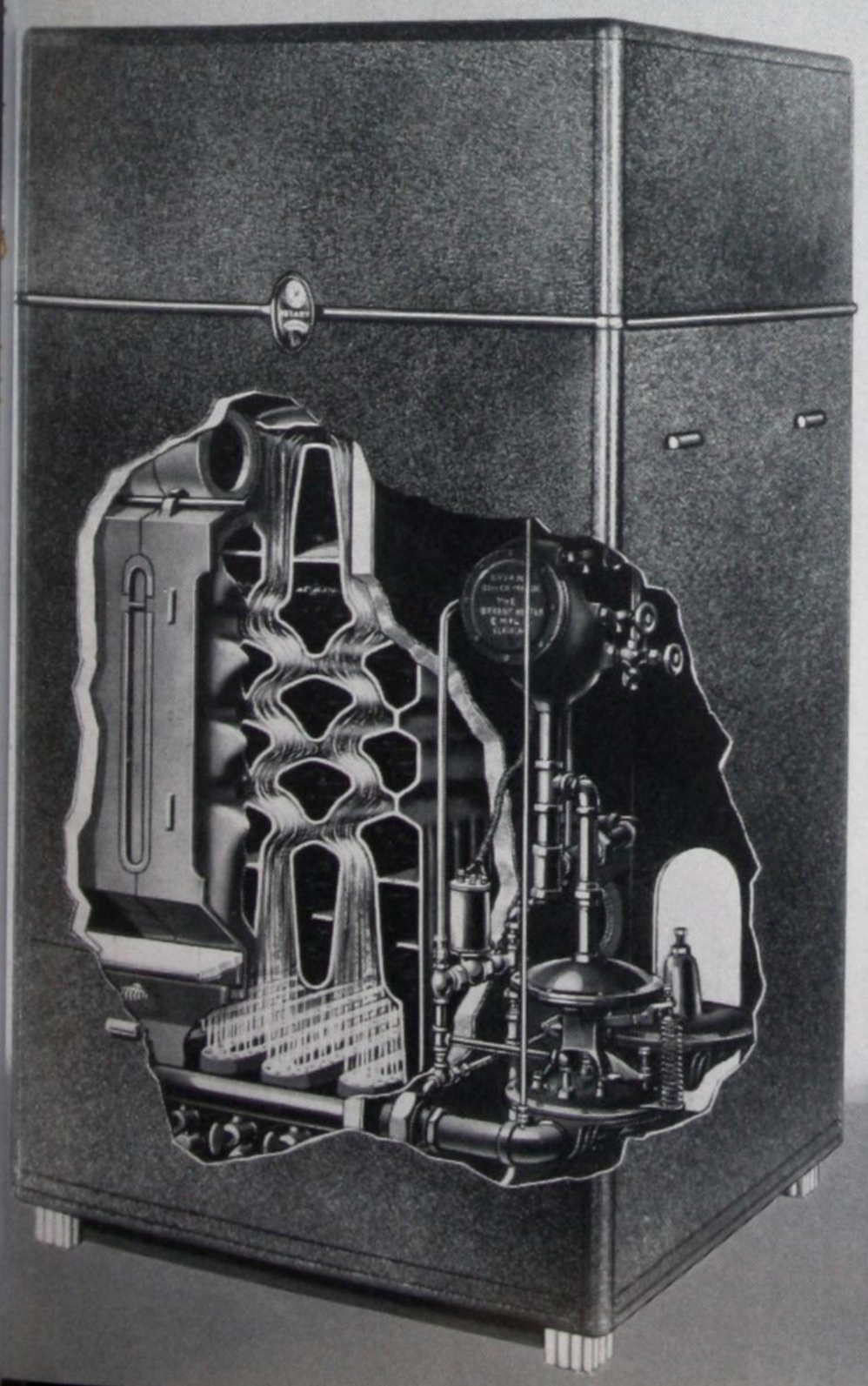
FOR STEAM, VAPOR, AND HOT WATER HEATING

he delights of truly and completely automatic heat-
g to be understood must be personally experienced
. . . the absence of furnace tending . . . . the evenly-
aintained temperatures . . . . the mechanically

r Steam, Vapor, and Hot Water Heat



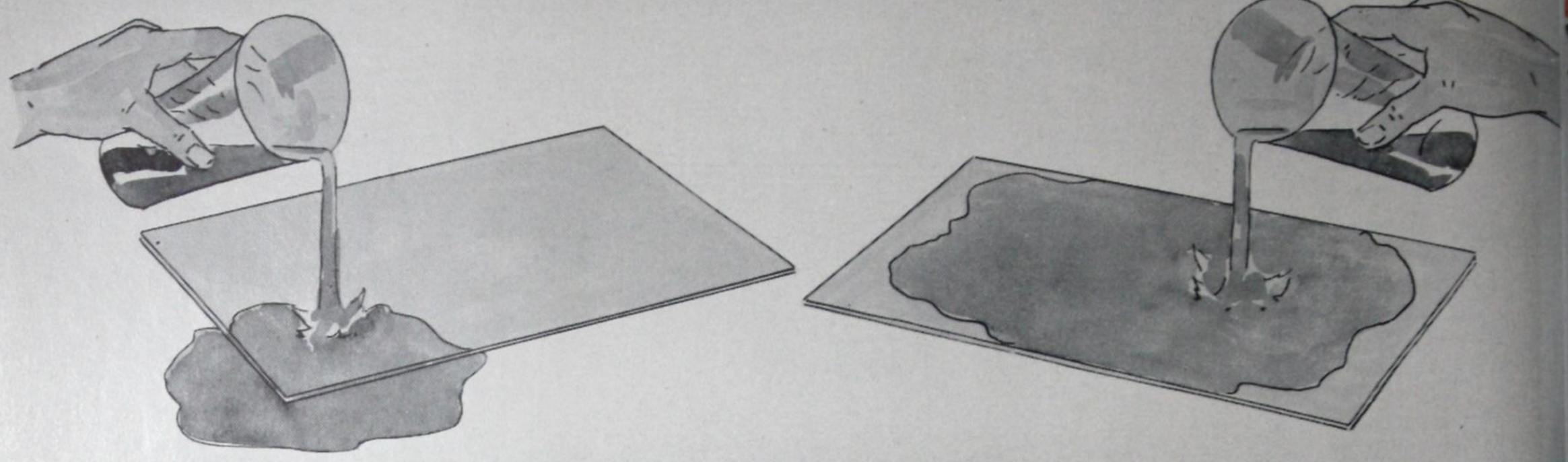
For Hot Water Heat



controlled comfort by night and day . . . the utter cleanliness of gas as a fuel.

Two factors in boiler design and operation are necessary to complete satisfaction and enjoyment of automatic heating.

The first is high efficiency from the fuel consumed; the second, completely dependable operation of the mechanical controls.



JUST AS A BLOTTER ABSORBS WATER SO HEATING SURFACE ABSORBS HEAT

If the blotter is too small

or

If the water is not applied properly, not all of it will be absorbed.

★ ★ ★ ★

If the amount of heating surface is too small

or

If the hot gases are not directed against each square inch of surface, some of the heat will be wasted up the stack.

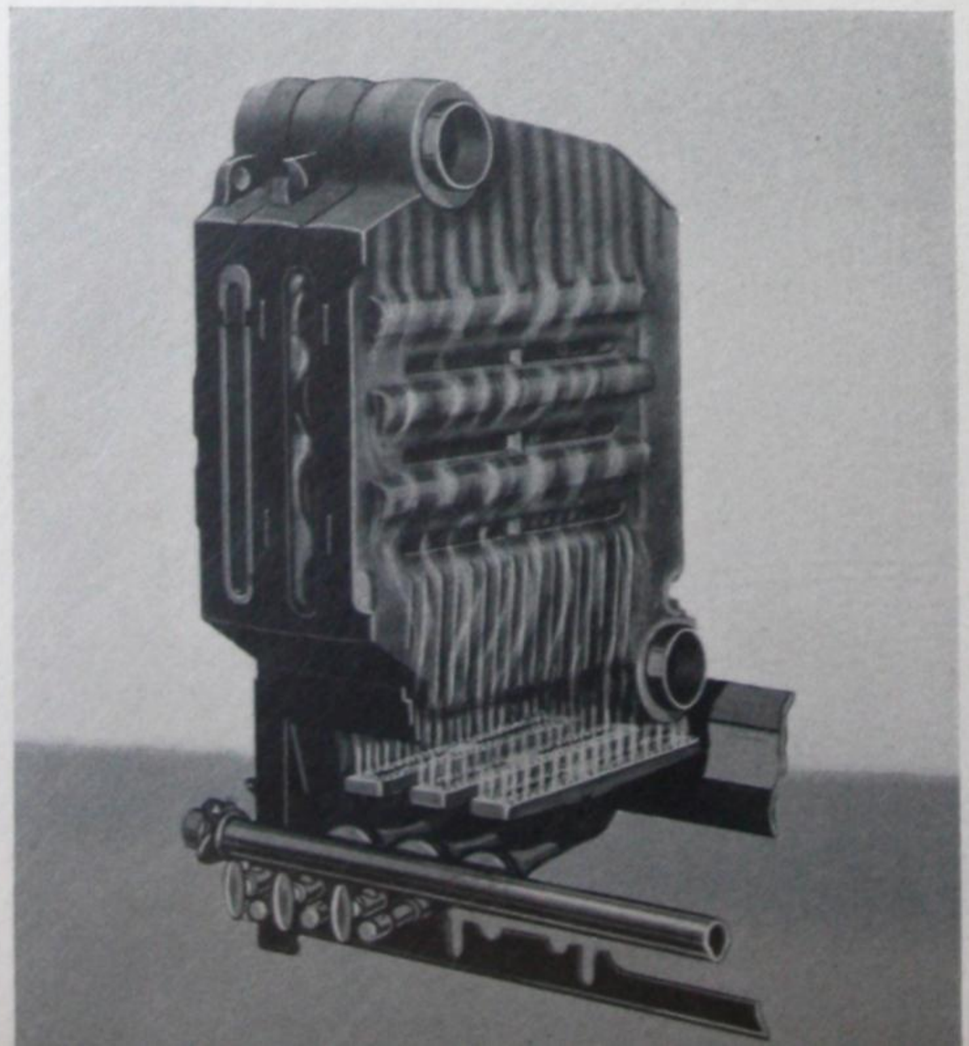
To utilize all the absorbing qualities of the blotter, the water must be poured on every square inch of surface.

★ ★ ★ ★

To utilize the absorbing qualities of a heating plant, hot gases must come in close contact with every square inch of its heating surface.

DESIGN

In Bryant Boiler design, tubular construction is used, as in the finest modern power plants, because the water-tube principle has been proved most efficient and economical.



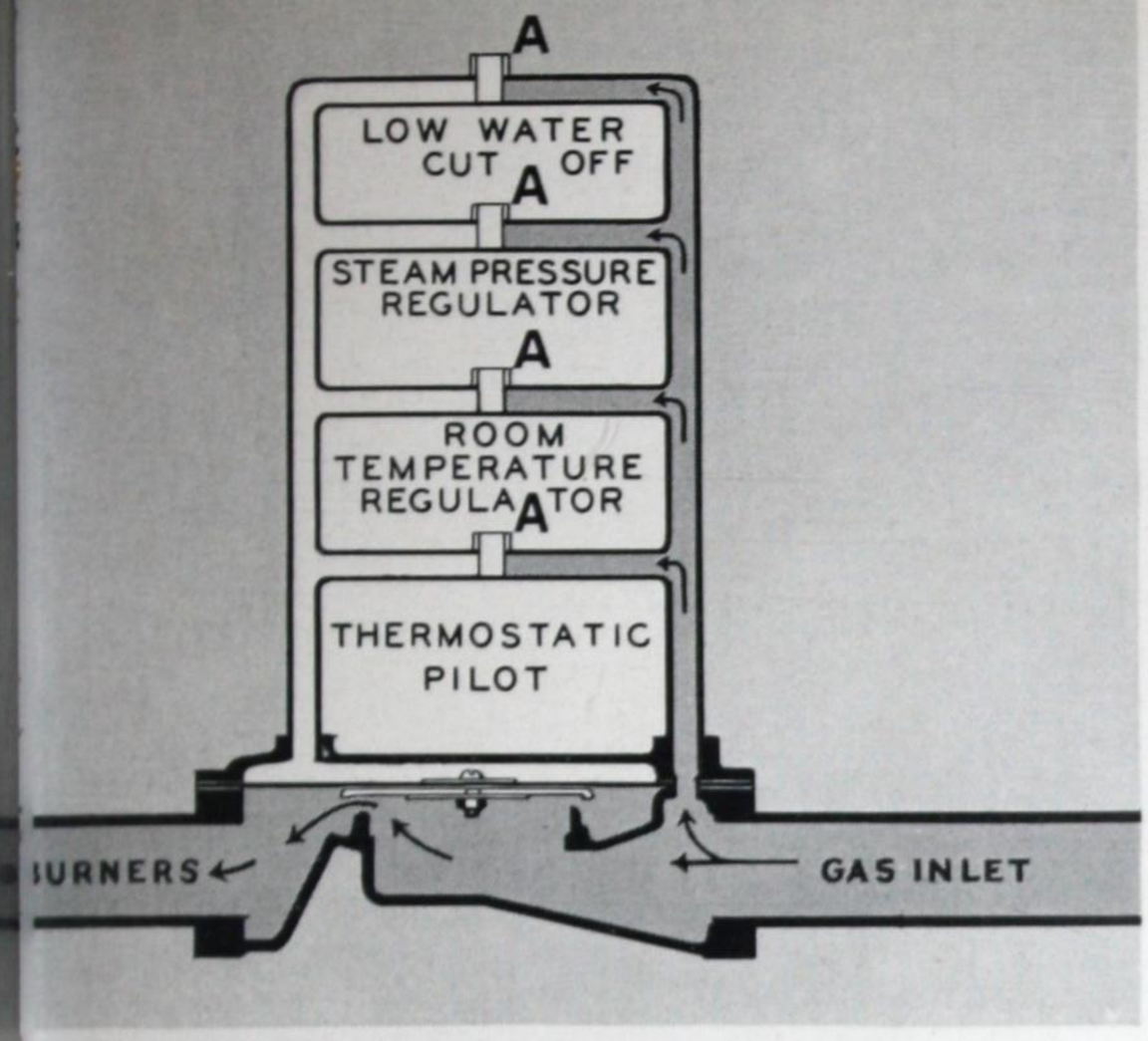
The boiler sections are of cast iron, safe from rust and corrosion, and are designed to provide maximum effective heating surface.

A heating plant is basically an area of HEATING SURFACE. The heating surface can be likened to a blotter. If it is too small or if the hot gases of combustion do not reach and scrub every square inch of its area, some part of the heat generated by the fuel used will be wasted.

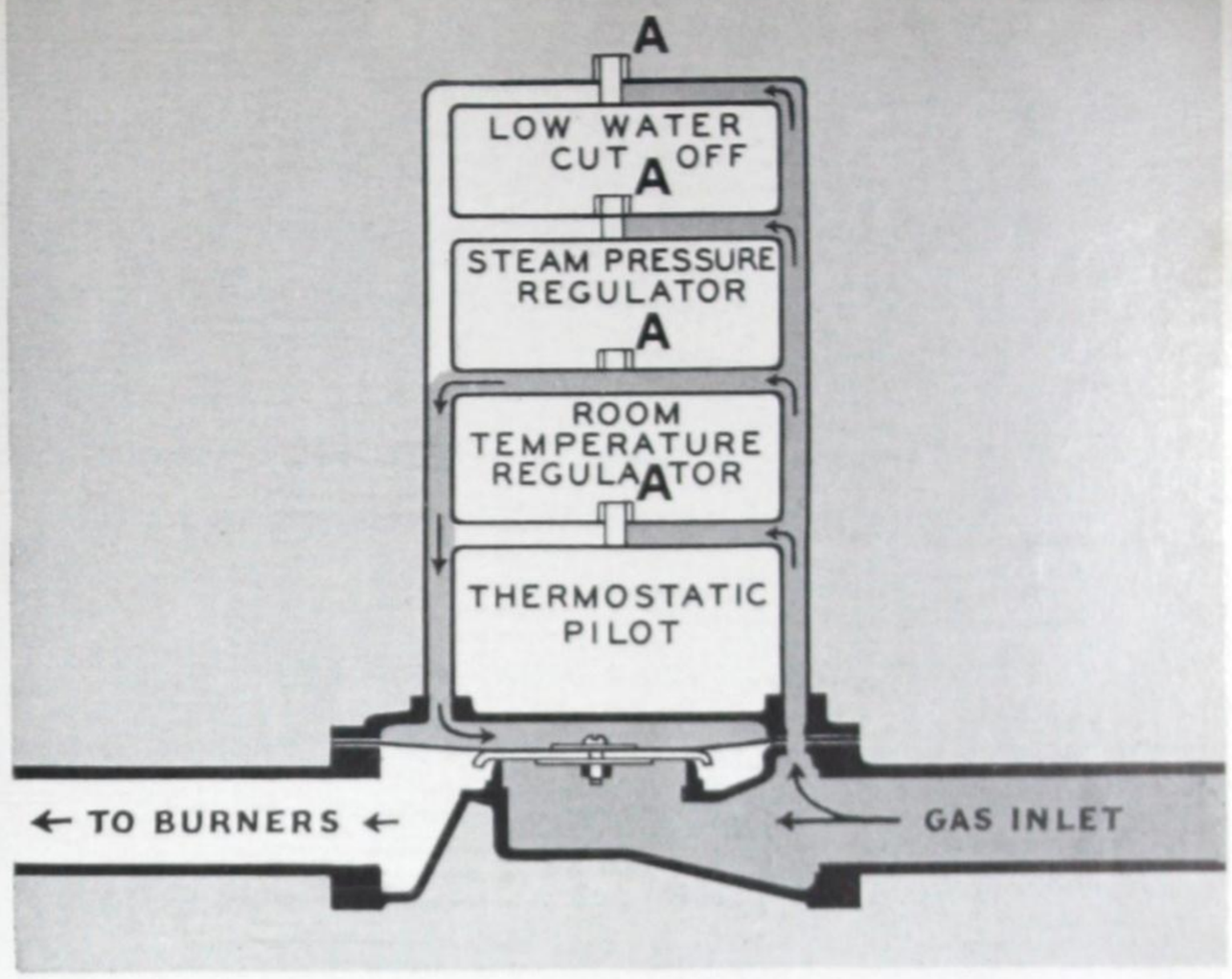
The shape of Bryant water tube sections provides for rapid circulation of the water within the section and maximum heat-absorbing surface exposed to the hot gases; the lower tubes, in the zone of hottest gases, are ribbed to permit additional absorption.

The staggered arrangement of Bryant water-tubes forces the hot gases to "scrub" the generously large area of heating surface so thoroughly that, in the spent gases, there is left only enough heat to assure the necessary flue-draft.

Staggered gas travel contributes to maximum efficiency. Note how the hot gases from each burner are divided by the lower water tubes, combined with the gases from the next burner, divided again by the next, and thus baffled back and forth, constantly rubbing heating surfaces, until only sufficient warmth is left in the gases to promote the necessary flue draft when they last leave the boiler.



All controls (indicated by "A") are closed. Gas flows to the burners.



Any one of the controls may permit gas to reach the top of the diaphragm valve. The diaphragm in the main control then closes immediately by the unfailing force of gravity, shutting off the gas supply instantly.

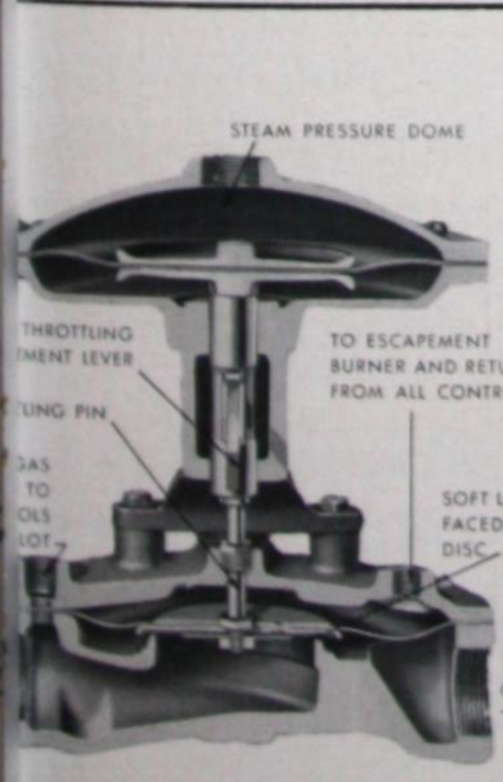
CONTROLS

No gas can flow through the main-diaphragm gas valve to the boiler unless the pilot is lighted and all controls permit operation of the boiler. The standard type of control system for Bryant Gas Boilers is the trouble-proof diaphragm valve system. This is the most simple in construction, and is operated directly and mechanically by the boiler controls — the low water cut-off — the steam pressure throttling control — and the thermostatic pilot for steam or vapor heating; and by the water temperature thermostat and thermostatic pilot for hot water heating.

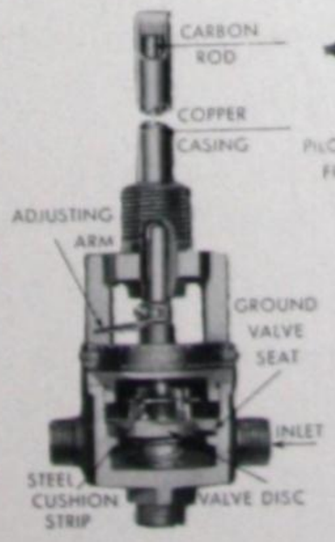
The gas pressure regulator maintains an even and moderate flow, at all times, of gas to the controls and the boiler. Because of this, Bryant Boilers are not affected by fluctuations in gas distribution pressures. Bryant gas-actuated controls have achieved a unique thirty-year record of thorough dependability.

These controls are so promptly and accurately responsive to every need that they "tend furnace" far more satisfactorily and economically than could a furnace-man who stayed beside the boiler twenty-four hours a day. Every varying condition and requirement, every emergency, is provided for in this "more-than-human" combination of automatic and completely reliable mechanisms, which can almost be said to anticipate every need of the household they serve, without adjustment, and, virtually, without servicing or replacement.

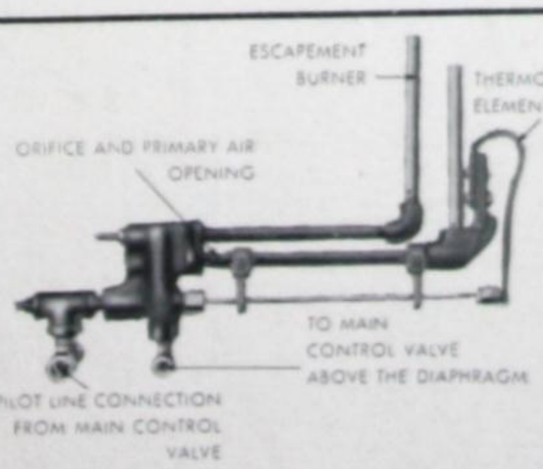
Manifold, burner cocks, and all controls are enclosed within cabinet. A centralized gauge panel is the only exterior accessory.



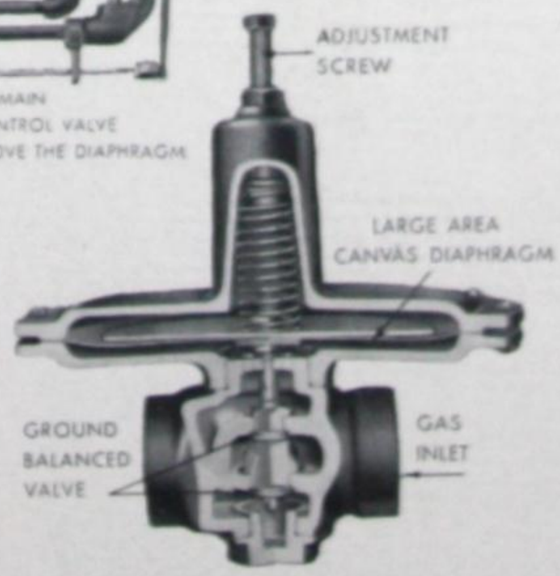
Throttling Control Valve



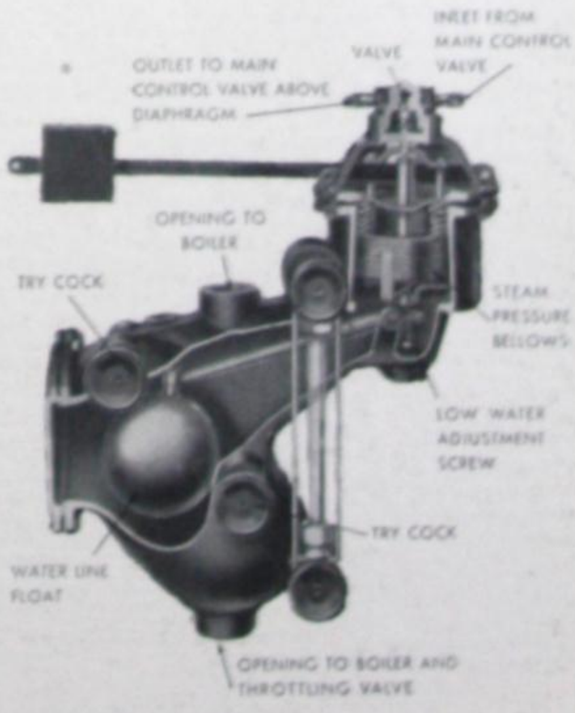
Water Temperature Thermostat



Thermostatic Pilot and Escapement Burner



Gas Pressure Regulator



Steam Pressure and Low Water Control

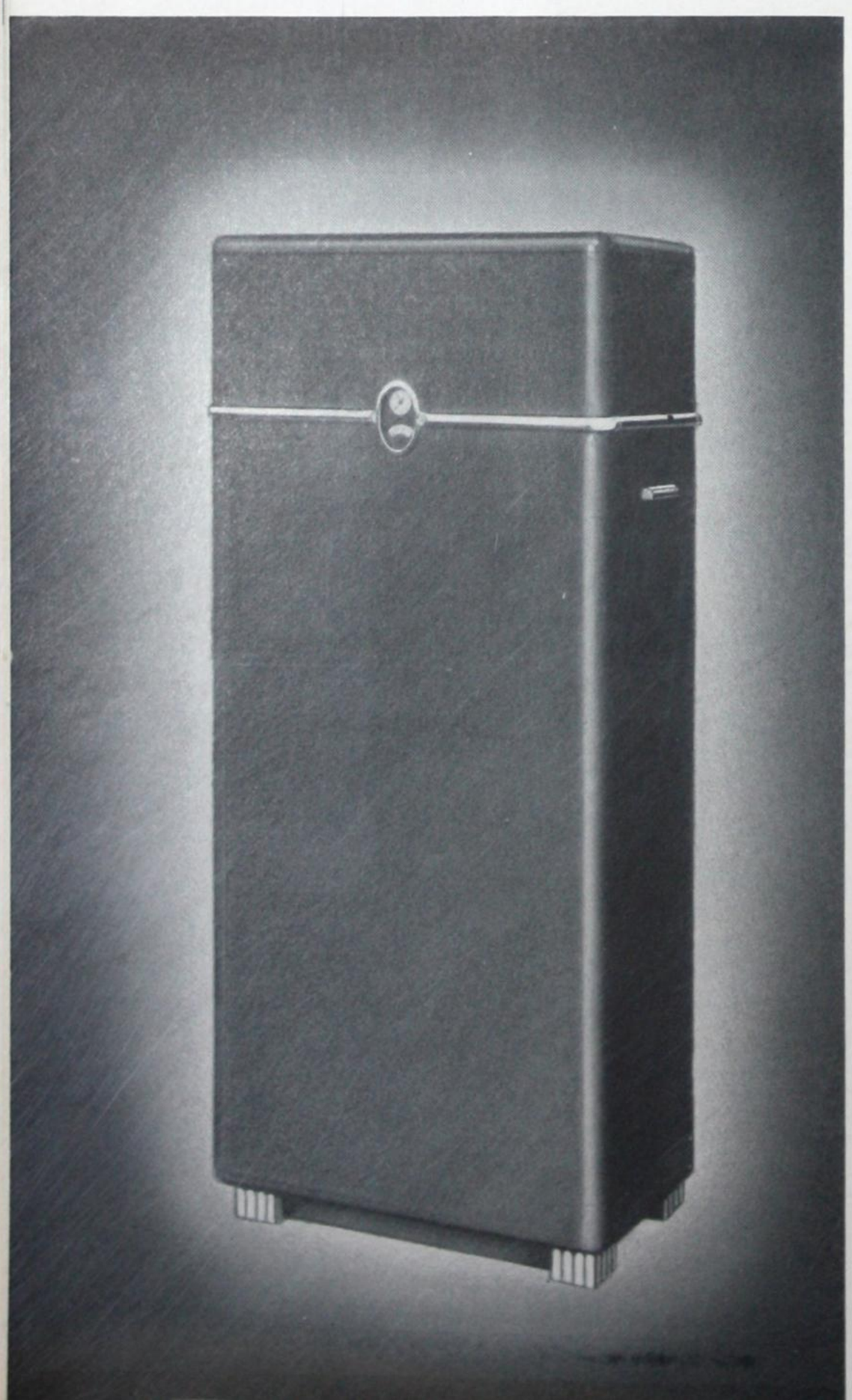
Never before such heating satisfaction in a single self-contained unit . . . . a beauty to look at and a thrill to own.

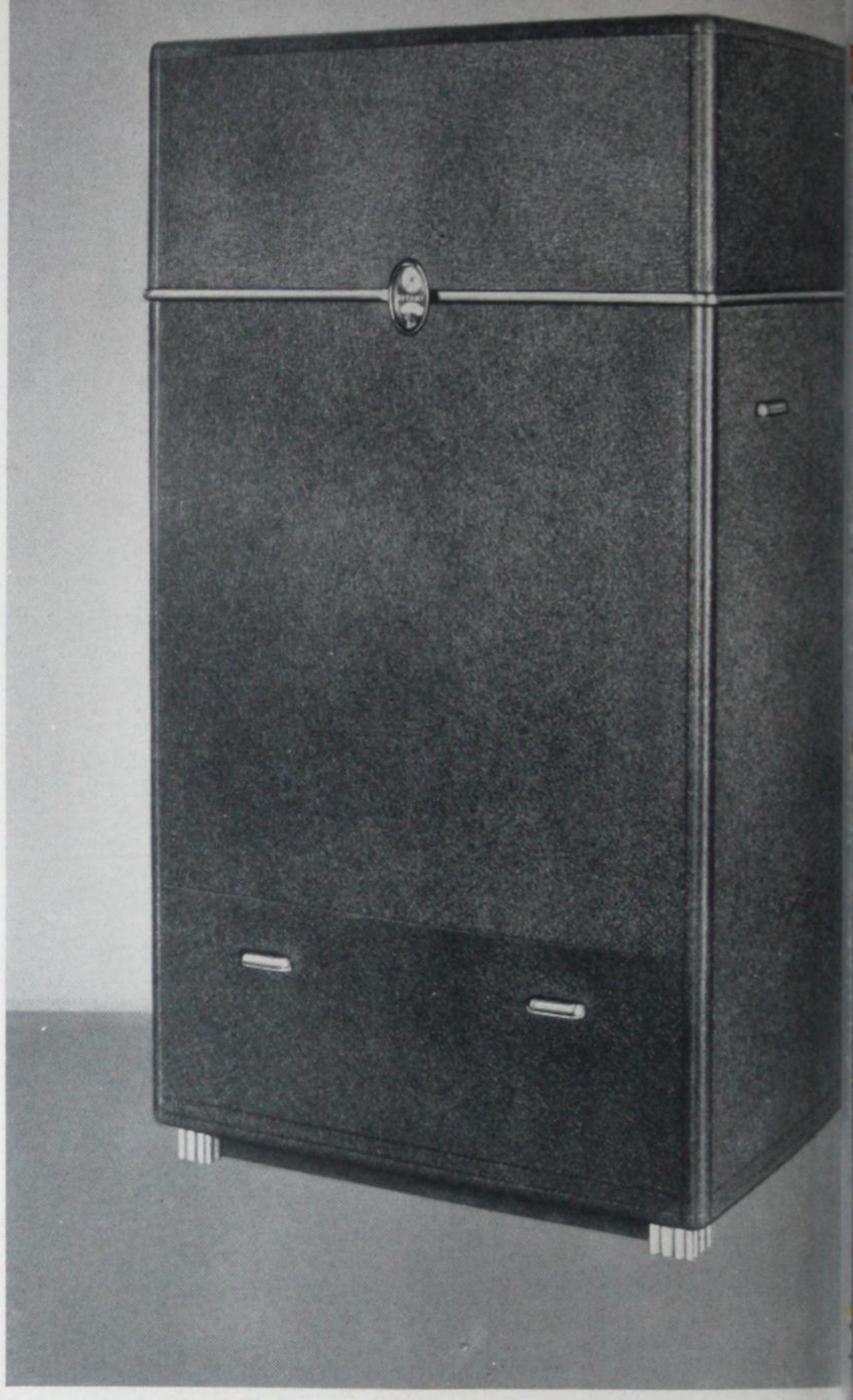
Never before such a completely automatic heating plant, so silent, so dependable, requiring so little attention.

Never before such a handsome heating plant — a STREAMLINED, deep-blue cabinet with chromium trim, free from exterior accessories.

With a Bryant Boiler in use, the "living basement" is truly possible, because a Bryant leaves recreation room, den, workshop, or laundry absolutely unhampered by tools, fuel delivery, ash removal, or the servicing and work that are necessary with other types of heating plants.

For Hot Water Heat





For Steam, Vapor, and Hot Water He

Furthermore, it generates no dirt, odors, or fum of any sort.

A Bryant Boiler responds promptly and sensitivel to thermostatic control, keeping your home within half-degree of the temperature you desire. Becau of the even heat it maintains, the cleanliness assures, and the furnace-tending it eliminates, Bryant Boiler has rightly been called "the greate single convenience which, at comparable cost, ca be given a home."

There is nothing delicate or breakable about Bryant Boiler. It has no moving parts to wear an grow noisy with age. It is built to outlast the buildi which it heats.

BRYANT

AUTOMATIC

FLUE-DAMPER

very heating system dissipates some radiated eat in the basement. This by-product of the eating system keeps the first floor warm, reuces drafts, and helps to make the basement arm and comfortable for recreation room, undry, or workshop.

ut "chimney pull" drains out this valuable armth, pulls it through the heating plant or rough the draft hood and out the chimney.

ut down the chimney waste when the gas eating plant is not in operation and the baseent warmth is saved, the first floor is warmer, rafts disappear and, best of all, the cost of eating is reduced.

he Bryant Automatic Flue Damper is installed the flue pipe connecting draft hood to chimey, is operated entirely by automatic gasctuated controls which go into action promptly the gas to the burners is turned on or off.



SOME ARTICLES SET THE STANDARD BY WHICH EVERYTHING IN THE SAME CLASSIFICATION IS JUDGED. THEIR QUALITY IS FIXED AND SUPREME . . . . THE OWNER OF A DIAMOND OF THE FIRST WATER CAN DO NOTHING TO IMPROVE ITS QUALITY. THE MOST THAT IS POSSIBLE IS TO GIVE IT A MORE ARTISTIC MOUNTING, TO MAKE ITS SUPERLATIVE QUALITY MORE QUICKLY SELF-EVIDENT.

★ ★ ★ ★ ★ ★

In the field of automatic heating BRYANT has long been the acknowledged standard of top quality by which all other automatic heating plants are measured.

Ever since the first Bryant Gas Boilers were installed, almost three decades ago, efficiency, dependability of operation, and wear-less performance have been synonymous with the name "BRYANT."

Many of the earliest Bryants are still in use, without a single part replaced. They have completely justified the famous Bryant slogan . . . . "You can let your Pup be your Furnace Man."

In recent years the exterior beauty of the Bryant Boiler has been enhanced. With its mechanical excellence, its carefully designed and rigidly tested materials, its precise and accurate workmanship, is now coupled an artistic pattern and finish. It is as attractive as any piece of serviceable modern furniture. Its performance is matchless.

All other products in the Bryant line described in this book maintain this solidly-founded Bryant tradition of painstaking care in design and construction. They worthily carry forward the Bryant reputation for consistent leadership and sustained progress.

★ ★ ★ ★ ★

THE BRYANT HEATER COMPANY

CLEVELAND, OHIO

[BLANK PAGE]


"LET THE PUP BE YOUR FURNACE
MAN AND WEATHER MAN, TOO

Burnham Home Heating Helps

told in a friendly way



Burnham Boiler Corporation

IRVINGTON, NEW YORK



How much do you care for your children? Do you care enough to make sure that the floor is sufficiently warm so that they can at any time play around on it? If you do care that much, then the friendly suggestions that follow will mean a lot to you.

The friendly way we will help you with your Heating

IN THE FIRST PLACE, let's forget all technical talk. Let's have no discussions about "impinging fire surfaces" and all that sort of silly lingo.

Let's just sort of sit down together, as you would with one of your neighbors who dropped in for an evening, and chat as you then would if the talk turned to heating.

When you consider that for a large portion of the year, so much of your home's comfort depends on the heating, its importance among *first* considerations is obvious. Yet so many actually leave it until the *last*.

You may get accustomed to the shortcomings of ineffective heating, but your friends and guests don't. You may get over grouching about your fuel bill, but the cause is there just the same.

It is, year after year, costing you more than it need. You are actually spending a certain amount of your money for which you get no returns. Which wouldn't you say, is the same as throwing it away?

So don't compromise with your heating. Skimp other places if you must, but have your heating right, so you can have both contentment of mind and comfort of body.

You will find this catalog a friendly help. Anything not covered that you want to know about, don't hesitate to write us. You will get a prompt answer. Furthermore you will find us friendly, pleasant people. A point you will appreciate.

Some friendly suggestions as to ways of keeping down Heating Costs

ALLOW US TO SAY AT THE START, that merely keeping down the *cost of your heating* does not mean you are *keeping down heating costs.*

Let us explain. The cost of your heating is what the outfit costs complete to put in. The heating cost, is what it cost to put in, *plus* what it keeps on costing, day after day *to run it.*

Here is how it works. Generally speaking the cost of the heating averages 9½ percent of the total cost of your home. Of course, if you go in for fancy gadgets, certain phases of air conditioning, and all that, it will cost more. But you expect that.

If, however, to save a few dollars at the start, you skimp a bit here and there on size of your radiators; or allow yourself to be convinced that a smaller boiler will do the work, than the figures show is needed, your heating costs are always going to be too high.

Not only too high, but you won't get the heat comfort you want and have a right to have. It means forever forcing and pushing the boiler. When you do that, an excessive amount of heat is sent up the chimney instead of into your radiators.

Even if that heat didn't go up the chimney, a radiator of a certain size can do only so much heating in a given time. You can't get a quart out of a pint bottle. So it all means you must not only run your boiler harder, but keep it burning full blast longer.

You may save a few first dollars in consenting to skimp your radiation or your boiler, but you will pay for that saving over and over, by the extra fuel you must burn, and still not have the cosy comfort heat you have a right to have. Such crowding of your boiler also shortens its life.

So save your money and insure your contentment by having plenty of radiation and an ample size boiler. Don't let anybody talk you out of it. Be firm on that.



It's funny the way some men have of blaming their wives for what they are to blame themselves. They will insist on having all the say about selecting the heating, and then grouch to her if it isn't satisfactory.

Now let's get Systems Out of our System



TALK TO MOST OF YOUR FRIENDS about how best to heat your house and what happens? Some will mention this or that system. Others dwell on the fuel and talk the advantages of oil over coal, and gas over oil. The next one you ask is "all het up" on the advantages of having a stoker and using cheap fuel. And so it goes.

A surprising few seem to consider of much importance what goes to make up one system, or another. Or the best boiler for your particular needs.

Of first importance to you, is what kind of an outfit is best adapted to your needs and pocketbook. It is both the starting and the stopping point so far as you are concerned.

Of course, for one reason or another, you may prefer steam over hot water. But what you may like, doesn't prove it is the best for your home, all things considered.

In any event, the heart of any heating system; and the efficiency of burning any fuel, *largely lies with the boiler.* Therefore, start right, right at the start, with the right boiler.

Naturally every boiler maker claims his is the best. But it is just common sense that all of them can't be best. Some one of them, however, is the best one for your needs and pocketbook.

We believe it is a Burnham. We know there is a Burnham for every need and pocketbook, and we know how effectively Burnham give you cosy comfort heat. We have been making Burnhams for over 60 years.

Then let's Systematically look into the Systems

THERE ARE FOUR MAIN SYSTEMS, the heart of which is a boiler. Let's look into the points of each and see if we can't help you to make a selection of the one system best adapted to your particular needs and pocketbook.

1. STEAM

Lowest in cost of installation. Quick to respond. Quick to heat. Costs less than water because of one line, instead of two, of pipe. Because of high temperature of steam, radiators can be smaller.



Its limitations are, that unless you have it equipped with the right kind of venting valves on the mains and radiators, you won't get a bit of heat until the water is at boiling point and steam pressure is produced. Below that point you burn fuel without any return.

That's why so many steam heated homes, become so quickly chilly when the drafts are shut off.

2. VAPOR-STEAM COMBINATION

By this combination, we mean a one pipe steam system, the mains and radiators of which are fully equipped with automatic air venting valves. Not the usual kind, but Burnham's that not only let the air *out,* but *prevent its returning.*

That means, the air pressure in the system will be so reduced, that the boiling point of the water is lowered, and the hot vapor will circulate freely before there is any actual steam.

You get heat several degrees before the boiling point is reached. With but a moderate fire, radiators will keep continuously hot.

These let-out-keep-out air valves, do cost a bit, but will pay for themselves the first season in actual fuel saved. They are sure enough your thrift friends.

3. VACUUM

This is sort of a glorified steam system, having both flow and return pipes, as with your hot water. It is equipped with special air venting valves, which preserve a partial vacuum in the entire system. Sometimes on the larger installations vacuum pumps are used.

The boiling point of the water, because of the reduced air pressure, is greatly lowered, and the hot vapor circulates unhindered. Each radiator is equipped with a swing handle valve, giving a graduated control of the heat. Also a steam trap to keep heat in the radiators.

Its cost is higher than the other systems, but the convenience of control, comfort assured, and fuel saved, warrant it.

4. WATER

The minute there is any heat in the water, that minute it starts circulating, and you get heat from the radiators. It is delightful low temperature heat.

The ordinary hot water system is a bit slow to respond. But that can be successfully overcome by use of a noiseless, electric pump which speeds up the circulation, making hot water heat practically as flexible as steam. Because of the water averaging not above 180 degrees, the radiators must be larger to give an equivalent heating surface to steam at 212.

Each radiator has two pipes — one to bring the hot water from the boiler to the radiators; the other to take the cooled water back.

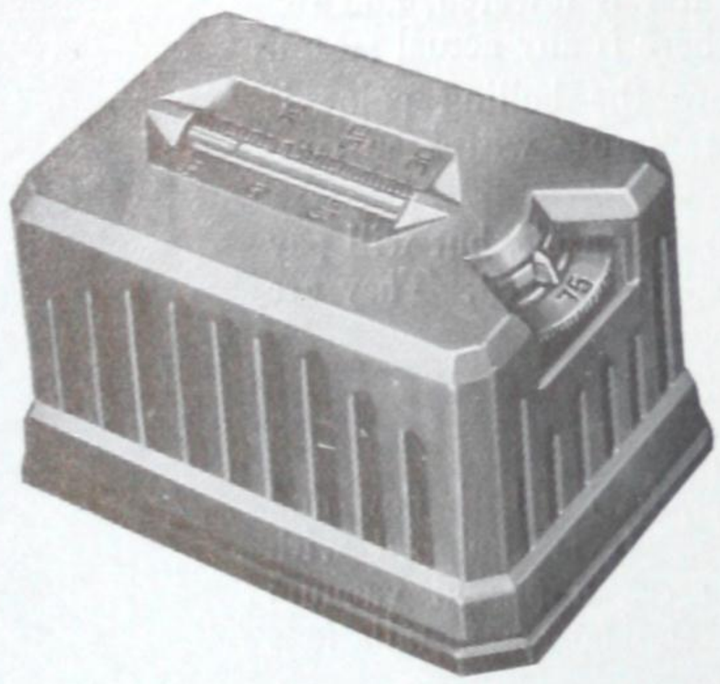
It is a particularly pleasant, low fuel cost system.

Of course, there are some modifications of these four major systems. But in the main these are the facts.

At this point

Consider Automatic Heat

. . . It's so well worth considering



This is the thermostat. You set it at whatever temperature you want, and it does the rest. Does it day and night. Just set it, and forget it. But it never will forget. Never goes to sleep.

IF FOR NO OTHER REASON, than making sure of contentment of mind and comfort of body, automatic heat is worth its price to you.

It certainly does effectually take the fuss and cuss out of heating your home.

Perhaps a better name for it might be "Magic Heat", for it is almost uncanny the way an innocent little box affair called a thermostat, conveniently located on the wall of a first floor room, can take the whole bother of heat watching off your hands.

You set it at the temperature you want, and it does the rest.

Automatic heat is a positive success with gas, oil, or stoker-fired coal. It costs no more in the end than other heats, that do so much less for you. Costs no more, because you get so much more 24-hours-a-day comfort out of it.

Gas is the most completely automatic of all, because after the supply pipe is connected, you give it no further thought.

With oil, all you need do, is remember to keep an eye on the fuel supply and see that the tank is kept filled.

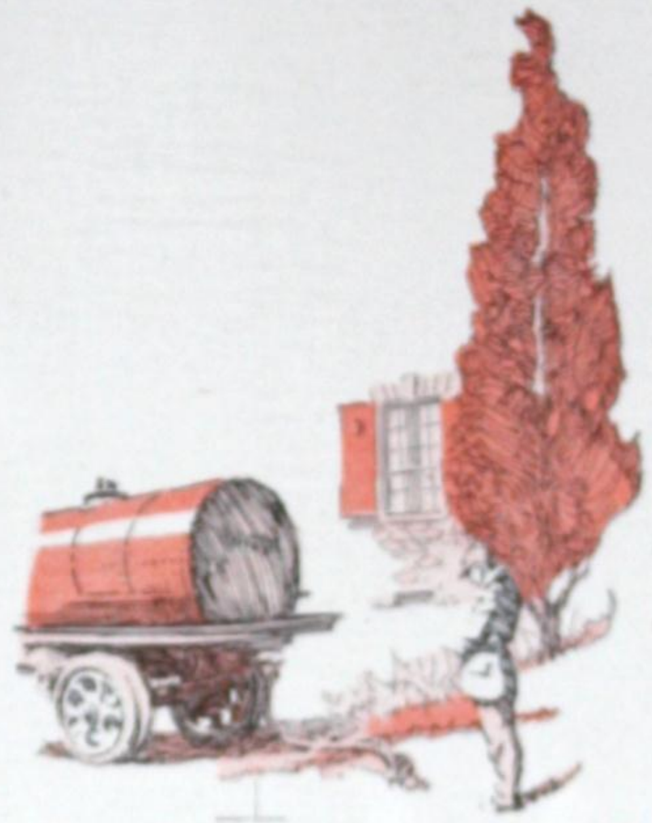
In some sections, by using a stoker, you can save considerable on your fuel costs, as it will burn a low cost coal.

As far as we are concerned, Burnham make separate types of boilers, each designed to best burn any of the three fuels.

So again it simmers down, to selecting the fuel and the Burnham which best meets your particular needs and pocketbook.

But if you can, by all means put in some one of the three automatic heats. You can then be assured of absolute contentment of mind and comfort of body.

Now let us look into The Fuels that are the best for you



GAS

If you are in the natural gas belt, or the local gas rate is low enough, then you have an ideal fuel, especially for automatic heat. After the pipes are connected you forget everything. The thermostat and other automatic devices, do the rest.

OIL

So far as convenience and freedom from all care is concerned, oil comes next to gas for automatic heating. All you need to remember, is to keep an eye on the oil supply. Even that, in some localities, is taken care of by the oil concerns. All standard makes of oil burners are now so highly perfected, you can't go wrong on oil heat. But it is important to have the right boiler. We have a catalog devoted especially to that matter. Send for it.

COAL

In some instances coal has it all over both gas and oil so far as cost is concerned. But its bugaboo always was the necessity of hand shoveling it into the boiler, and the temper-testing taking out of the ashes. But the automatic stokers have now taken care of that to the queen's taste. They automatically feed the coal to the fire from either your bin or a hopper. The ashes are at the same time deposited in dust-tight cans for easy removal. You can use a low price fuel, generally making a considerable saving. With stoker firing you can have automatic heating of your hot water supply, during both summer and winter, the same as with gas or oil. The Burnham coal boilers, because of their extra long fire travel, are highly satisfactory with either hand or stoker firing. It's that long fire travel that makes their short fuel bill.

As for the comparative cost of oil, gas and coal, you can readily see all depends on conditions where you live.

Then arises that little-big question of

Radiators



Finally the owner revolted, and "yanked out" the old radiator, cut a 4 inch deep recess under the window and put in one of the new Burnham Slenderized Radiators which is flush to the face of the wall. Does not stick out at all into the room. What a difference! Now the chair can really be somewhere near the window.

LOOK AT THE LOWER PHOTOGRAPH. See that space-taking, ugly looking radiator, right in front of an important living room window. What a nuisance!

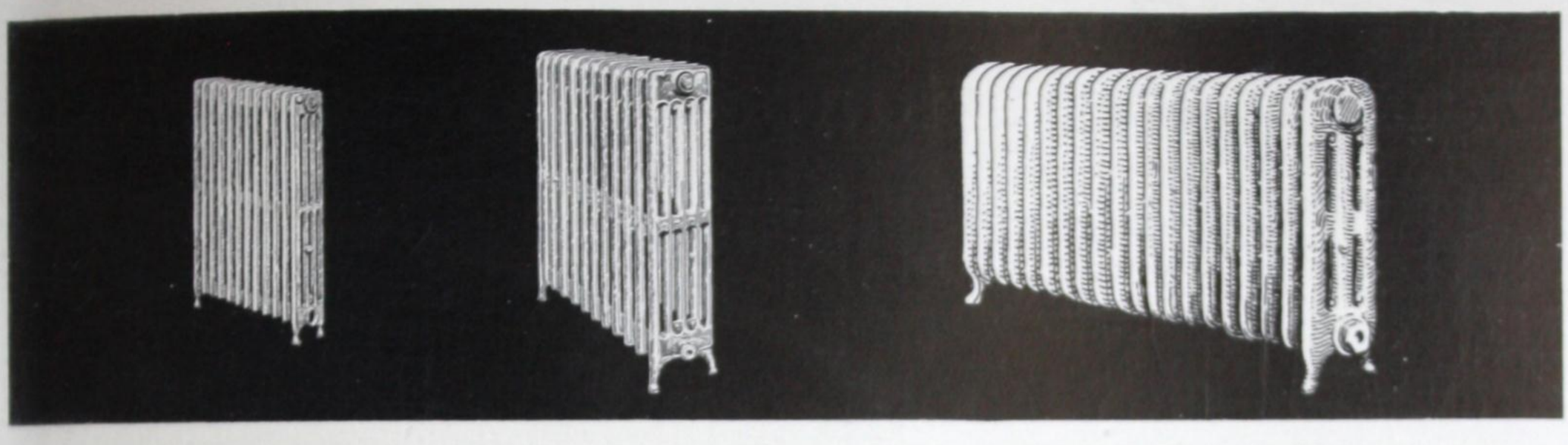
Now look at the top photo of the same room, but with a Burnham Slenderized Radiator recessed out of the way. So slender and narrow are these Slenderized Radiators, that you can put them in only a four inch deep recess and let the attractive front of the radiator itself, be the grille.

But you really don't need to recess them. They are so narrow, and so restrained in design, you can finish them the same as the walls or woodwork, and they'll scarcely be noticed at all.

Take the one in a living room, shown on page 9. It is no thicker than the length of my first finger. No higher than the sill. Running full width of the window, it fits right in with it as



What an eye-sore is that wide ugly looking, old-time radiator in this Colonial flavor room. One that otherwise is so carefully thought out in every detail.



Here is the Burnham Slenderized Radiator, that is so unbelievably small and compact but does such a big job of efficient heating.

This Tube Type or Fero Radiator of ours although it takes up more room than the Slenderized one, is a great improvement in attractiveness of design over the old kind.

Here is the "bugaboo" stick-out-in-the-room one. Not only do such radiators take up more room, but take more heat to heat them.

if part of the design. It is painted the warm-tannish-grey of the walls and curtains. As a result, you simply don't notice the radiator at all. It is an harmonious part of the picture, so to speak. You scarcely see it.

That then, is what the new Burnham Slenderized Radiators will do for you. Although so much smaller, they are far more efficient than the big ugly ones, that are so utterly impossible in present day homes. The new good-looking Burnhams cost no more than the old ugly ones. Think of that.

Just a word more. The old-time radiators stick out in the room 10 to 12 inches. The Burnham Slenderized ones, no further than your forefinger is long. And let us say again, that in a recess space of 4½ inches between the studding under your windows the Slenderized Radiator will fit in entirely out of the way. Its front will be flush with your walls. So finely designed and finished are they that you need no grille in front of them. They are their own grilles. And another thing, radiators so recessed are highly efficient and don't let anyone tell you otherwise.



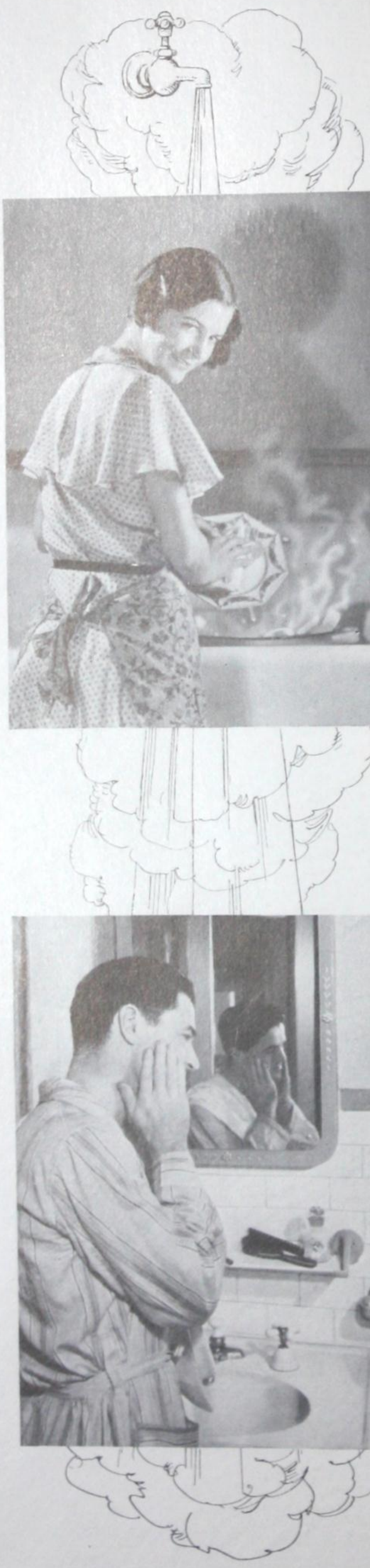


If you were not actually looking for the radiator in this room, you just wouldn't know it was there. When you did discover it, you would have the impression not of a radiator, but an unobtrusive, carefully designed grille. Such is what can be accomplished with Burnham Slenderized Radiators.

The photo at the left shows the way most radiators stick out. This one in a bed room is actually a foot deep, besides setting out two inches from the wall. That makes 14 inches into the room. Yet it is no larger than the usual style of radiator has to be. You would scarcely notice it, if it were a Burnham Slenderized one.

Of next importance is HOT WATER

How to keep out of it by Keeping in it



NEXT TO POOR COFFEE AND COLD SOUP, wouldn't you say, the failure to have enough hot water, when it was wanted, has caused more grouching than anything else about "living home"?

Of course, to have good coffee you must first start with enough coffee; you know that's just good sense.

By the same token, if you would make sure of having enough hot water, you must first see to it your supply tank is large enough. So don't skimp on its size to save a dollar or two.

Then make doubly sure your way of heating it, will do the job.

It is a funny thing, that important as hot water is in every home, so many folks will cut costs on the equipment by cutting down on size of tank, or skimping on size of the heating part.

Cut down on the size of your pet closet, but whatever you do, see to it you will have all the hot water you need. Not only have it at certain times — but *all* the time.

There are four different ways to make sure of having it all the time.

1. INDEPENDENT HEATER

Have a Burnham hot water supply boiler connected directly to the supply tank. It is surprising how little fuel they burn and how much hot water they give.

2. OUTSIDE INDIRECT HEATER

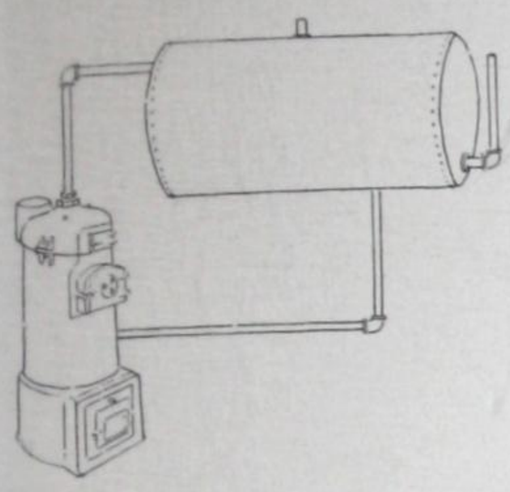
This is a copper coil, enclosed in a cast iron casing, through which the water from the boiler circulates. The coil portion is directly connected to the supply tank, heating it. This Indirect Heater can be connected to the outside of any boiler and it will give highly satisfactory results. You can get Indirect Heaters from us.

3. BURNHAM-TACO TANK

The copper coil heater and tank are combined in one. It is connected directly to the boiler. One of the most economical and satisfactory methods.

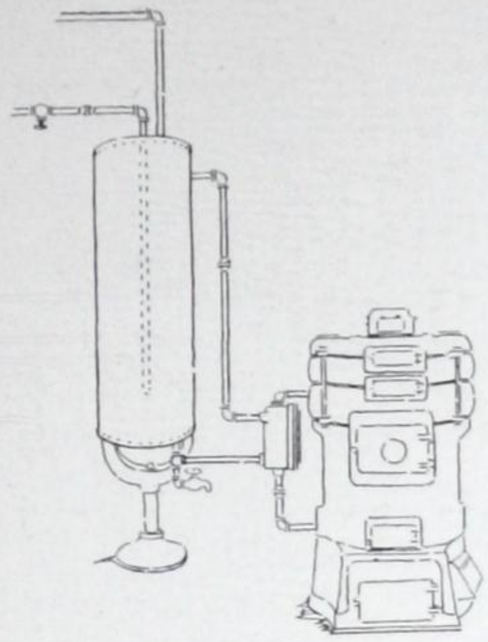
4. BURNHAM OIL BOILER TACO-WATER HEATER

The Taco water heating coil is built right inside the oil burning boiler, and placed at the top where there is always the most heat. It is an ideal fix.



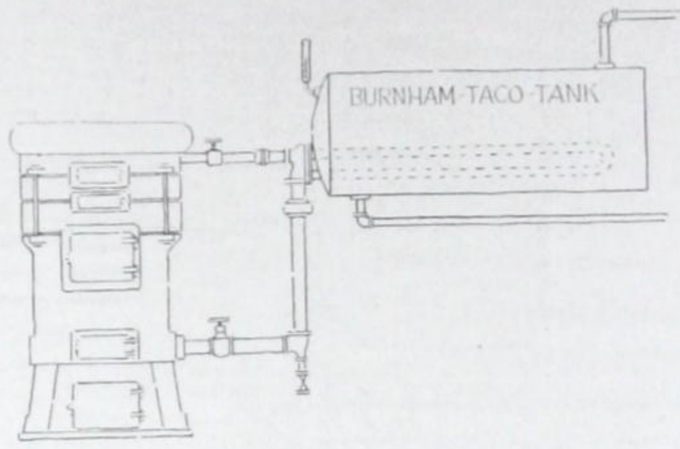
SEPARATE EQUIPMENT

This is the separate or independent hot water supply with its own boiler for heating the tank. It generally burns coal.



OUTSIDE TACO

Here the Taco hot water heater is on the outside of the boiler and connected to both it and the tank.



BURNHAM TACO-TANK

Instead of the Taco heater being connected on the outside of the boiler, it is right on the inside of the tank itself, with pipes coming from the boiler to the Taco heater. Gives particularly high efficiency.

How the BURNHAM AUTOMATIC HEAT Furnishes you Hot Water both Winter and Summer

BY AUTOMATIC HEAT, we mean Burnham Boilers burning gas, oil or coal, that are automatically controlled. It used to be, that only gas and oil fuels could be fully automatic. But now that stokers have been perfected for home heating, coal also can be automatic.

One of the strong economy points and great conveniences of Burnham automatic heat, is that it furnishes you plenty of hot water in the summer, as well as in winter. Your boiler is never idle. This is the way it is done.

For the summer, the burner or the stoker is controlled by an Aquastat. You set it at say 180 degrees. Whenever enough water is drawn from your hot water tank to lower the temperature, the Aquastat turns on the fire. Soon as the water is again up to the temperature you desire, off goes the fire. No needless fuel is burned.

If for example, an extra number of baths are being taken, and the water should start coming just warm instead of hot, then the Aquastat will see to its being hot again in a surprisingly short time.

"But," you say, doesn't running the boiler that way heat the house too? Isn't there a waste of fuel?"

No, not at all. The Aquastat attends to that. It never allows the water to get hot enough at any time, to throw heat into your radiators. Automatic control valves on the mains prevent summer-time circulation of hot water through the radiators. As for cost of fuel, it is but little, if any more than other methods.

But supposing it did cost a bit more, what of it, considering that you know you will at all times have plenty of hot water. All the time. Not just at times.



This cut open view of the boiler, shows how the Taco coil hot water heater is built right into the top of the Burnham Oil Burning Boiler, where it is the hottest. Here you have the height of efficiency.

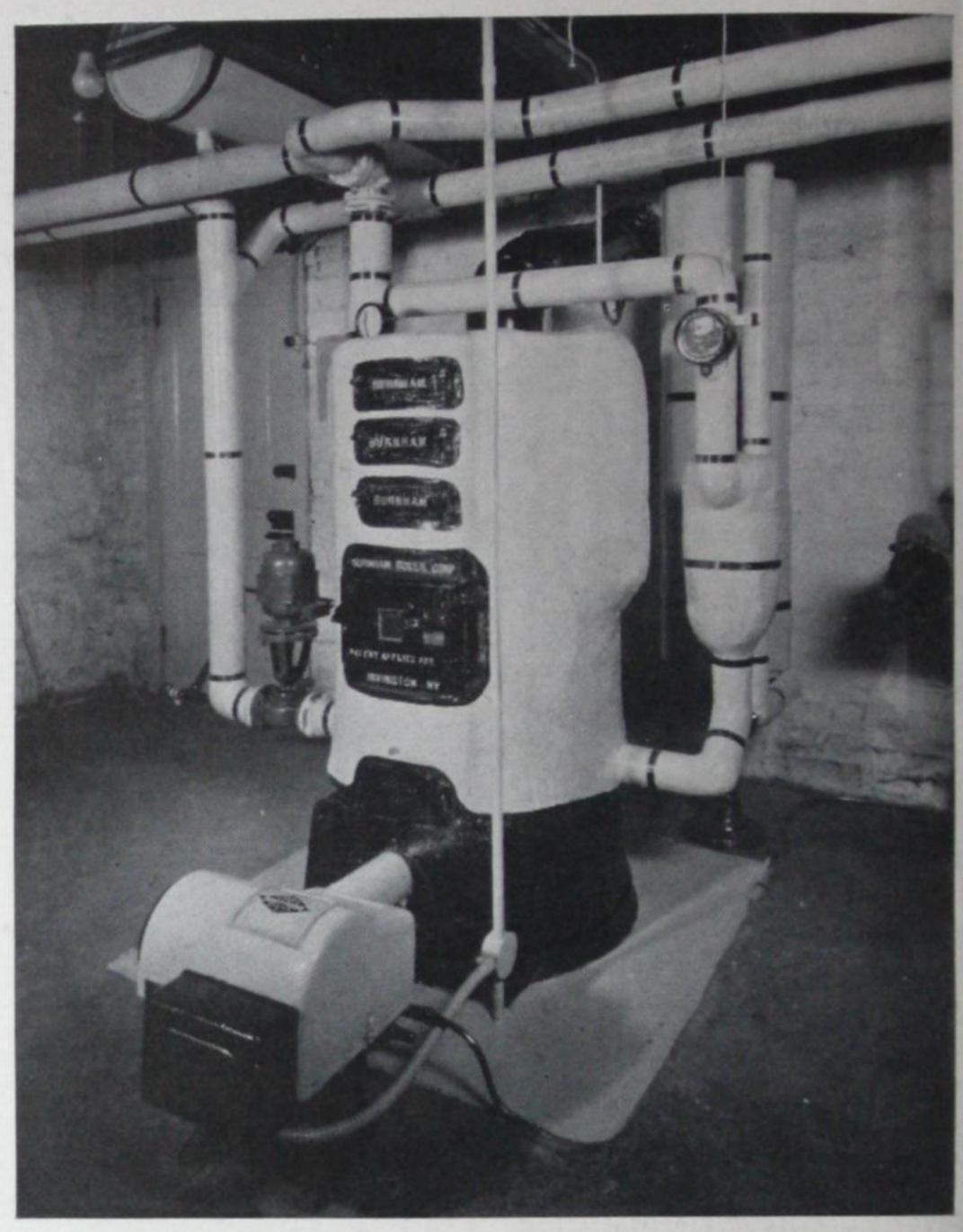
If you decide to

BURN OIL

then it's time to choose

which type of boiler

IS BEST



Here is a regular coal burning Burnham Round Boiler, with the grates removed and an oil burner attached on the outside. It is giving most satisfactory results.

WHEN OIL BURNERS were first being perfected for home heating, the leading concerns used Burnham regular coal boilers practically exclusively, for oil demonstration purposes.

They did it, because of both the Burnham economy and their long fire travel, which hushed so much of the roaring noise of the flame.

In those days, there was no such thing as a boiler designed especially to burn oil. So all burners were attached on the outside of the boiler.

There are a good many who still prefer it that way. Prefer it, instead of the burner being built in or jacketed inside, as is the Burnham specially designed Oil Burning Boiler.

There is no doubt about the very definite fuel economy in this specially designed Burnham Boiler. It is also attractive looking with its smart jacket and touches of color. There are certain advantages in having everything built in and out of sight.

Some, however, feel that if a time should come when the cost of oil might be such that they would save money by going back to coal, they want to be able to do it. And the point is a good one.

Some people instruct their heating contractor, even though they intend burning oil, to install a coal burning boiler and keep the extra parts on hand for use of coal any time they want to change.

You see, we are in an entirely unprejudiced position in the matter, as we make both types of boilers. It doesn't matter to us which you buy. So our main interest is to help you get the boiler best adapted to your particular needs and individual pocketbook.

We have a most interesting catalog on the special Burnham Oil Burning Boiler which we would be happy to send you. In fact, we suggest your surely seeing it, before deciding on which boiler is best for you.

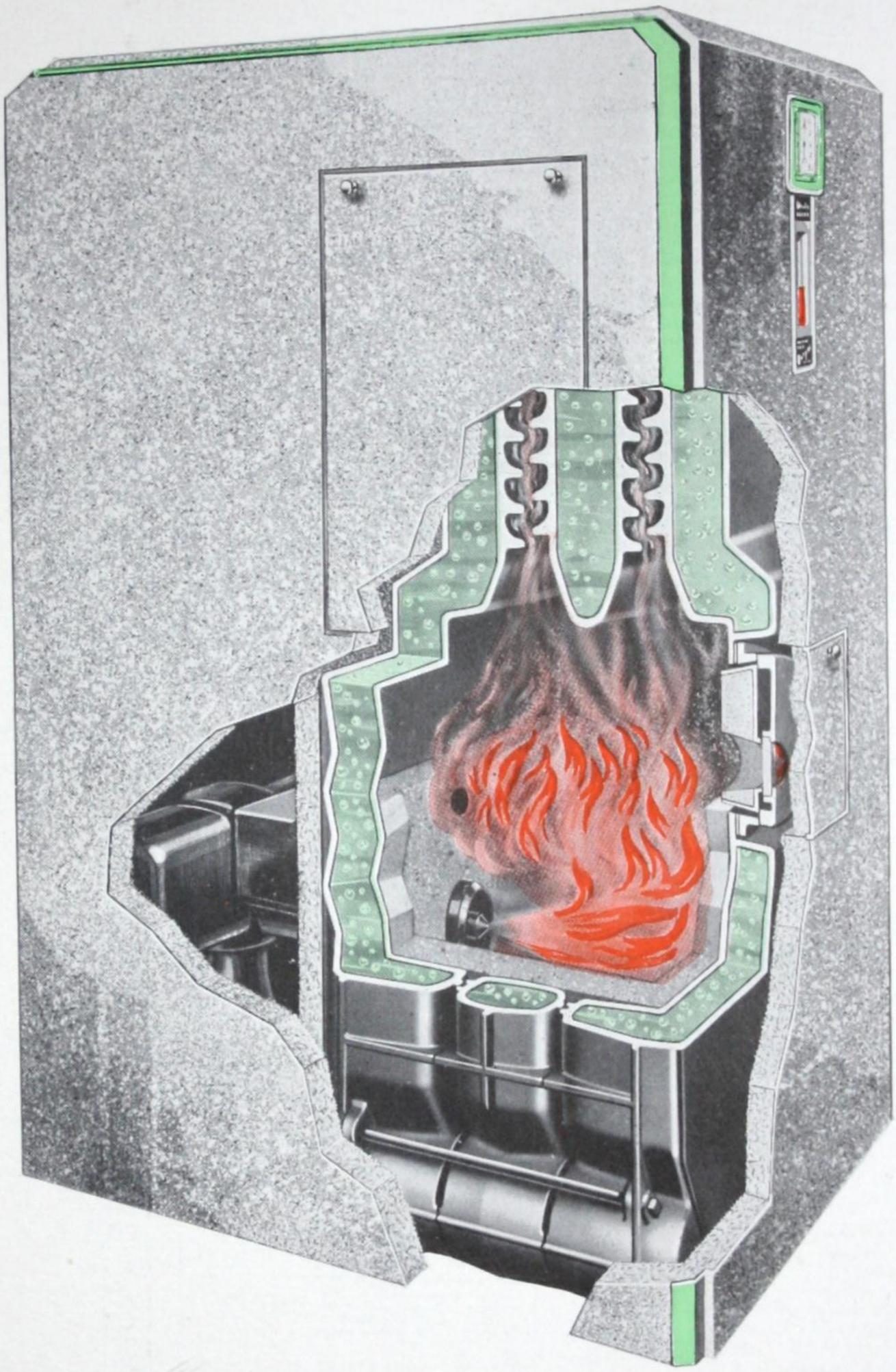
On page 22 is mentioned other printed matter which you may want. It is sent free.

On page 20 of this catalog are some pertinent question and answers on the things you should know about heating with oil. Suggest you carefully read them.

HOW THESE TEETH EAT UP THE HEAT

The Burnham Oil Burning Boiler sections are studded with teeth which literally eat up the heat. From 16 to 18 hundred degrees of heat are taken up by the water through these teeth, in a distance of 19 inches between the combustion chamber and smoke box. Think of it, 16 to 18 hundred degrees that are used to quickly heat your radiators.





THE BUILT-IN BURNHAM OIL BURNING BOILER

Everything about this specially designed Oil Burning Burnham is built-in. The jacket is as sleek and clean as a greyhound. Even the Taco hot water heater is built-in. The jacket is pleasing in design. Main parts are aluminum spatter-dash, with a baked-on finish. The bevel edges are a true Mitis green. The effect is most pleasing.

But you ask what of Stokers and Gas-Fired Boilers for Automatic Heat?

Glad you asked that question, even though we have touched on them already. But it is so important that just touching isn't enough. So what do you say if we go into it thoroughly.

SOME FEEL THAT GAS is the coming fuel. There isn't a doubt of its being one of the cleanest, fully automatic heats there is. In sections where the gas rate is favorable, we recommend its use. Burnham has a worthy gas-fired boiler designed specially for the purpose.

Of course, automatic or mechanical coal stokers have been used for a long time for industrial boilers. And for a while the makers certainly did have a lot of grief, when they tried to cut down "papa's pants to fit Willie" so to speak, in attempting to adopt those stokers for home heating boilers.

Happily for you, that's all a thing of the past. The present day stokers are quite wonders of ingenuity. They are just as dependable as oil burners.

Low priced fuel is used, thus reducing costs. These stokers make no more noise than an oil burner, and are just as dependable. Cost but little if any more.

First off, you filled a hopper with coal, but still had to shovel out the ashes. But now the ashes are automatically brought out and put in dust-tight covered cans by the side of your boiler.

The coal can be put in the hopper by hand, or by an almost magic method automatically brought from your bin and fed into the boiler. The ashes can also be deposited in cans outside if you wish.

One filling of the hopper will last in coldest weather for 24 hours. Being automatic, it takes care of itself same as does an oil burner.

Will heat your hot water in summer as well as winter, and do it economically.



This 100 year old, thirteen room house at Chester, New York, had been heated for 25 years with a hand-fired Burnham. When a stoker was put in, the price per ton of coal was cut more than one-third. The owner says they have so much additional heat comfort from it, that even if there was no saving in fuel at all, he wouldn't be without it. It supplies their hot water both winter and summer. Also heats the greenhouse in winter. Glad to give you his name. Am sure he would freely answer any questions. Three of his neighbors put in stoker heat because of his satisfactory results.

This special Burnham gas-fired boiler is mighty good looking. It has a name for economy.

The Importance of Air Valves

How they Save you Money



Burnham No. B2 Chromium plated Radiator Valve

It quickly lets the air out and then closes tight so it can't sneak back in, when the radiators cool down.

WHETHER YOU'LL ADMIT IT OR NOT, air is radiator heat's biggest enemy. It is the fighting out of the old law that two things cannot occupy the same space at the same time.

If there is air in your radiators, the steam will do its best to push it out. If there is no vent place, then it will try to compress it — and the battle is on. Sometimes you hear the struggle, in disagreeable knockings and bangings.

Often it results in only a portion of your radiators heating. Or, if you have air venting valves that are not any too good, the air may be let out so gingerly that the slow creeping across of the heat makes you disgusted with the whole heating system.

You may be burning plenty of fuel and still getting only stingy heat. So see to it that each one of your radiators is equipped with Burnham dependable air valves.

One kind lets the air out, but soon as the heat dies down a bit, lets it creep back in. Most valves, sorry to say, are that way.

By far the better way is to use the Burnham Valve that both lets the air out and then keeps it out. They cost more, because obviously they are worth more.

It is a smart idea to also vent the mains. That means they are at once freed so the steam can quickly get to your radiators. The air that would otherwise be pushed into the radiators, is let out before reaching them.

Some folks cut costs on their heating by using cheap valves that soon clog up and cease to function.

Burnham valves are chromium plated, and when rightly installed, are unconditionally guaranteed for one year. So see to it that you get Burnhams.



Burnham No. 6 Valve

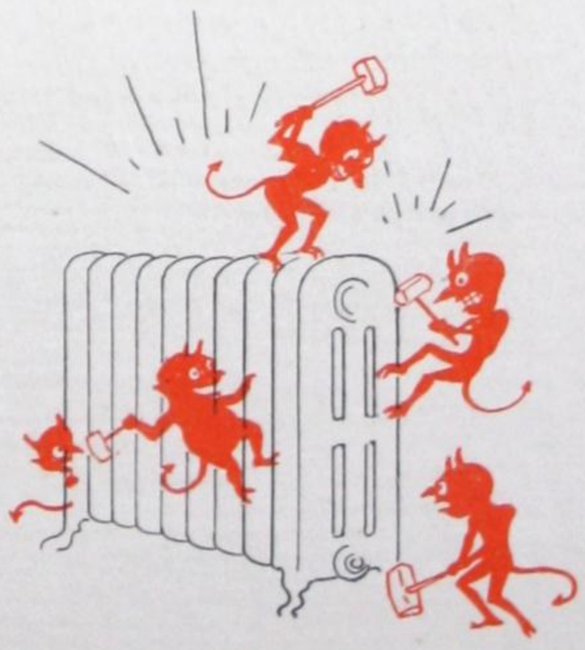
for quick venting of air in mains



Burnham No. B4 Chromium plated Valve

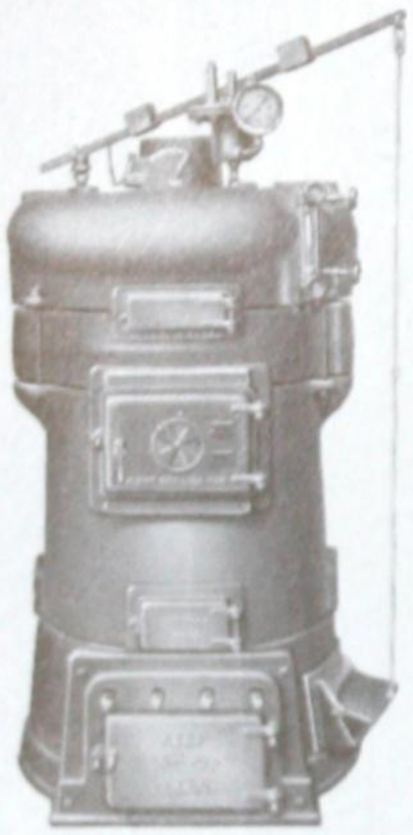
for Mains, Coils and Risers

Burnham air valves keep those invisible hammer devils from getting into your radiator and raising hob with the peace and quiet of your home.



You Ask Which Is Better the Round or Square Boiler?

NEITHER IS BETTER in the case of Burnhams. But both do best the job they are built to do. So far as economy is concerned, one is just as heat thrifty as the other. Sometimes one costs more than the other—and that often decides it. So let's look each of them in the face and make them tell their own common sense story to you.



"My head may look swelled. And it is. That's because I'm built to do steam heating as it ought to be done."

THE ROUND BOILER TALKS

YOU SEE IT IS LIKE THIS. I am sort of a tea kettle grown up. A tea kettle with long pants on, so to speak. Because I have always looked like a cross-section between a kettle and the old dining room stove, a lot of folks could understand me. They just put me down as sort of a glorified stove with a tea kettle attachment, that you could hook up to radiators and make everybody heat happy.

"So I sprang into popularity over night. If I do say it myself, there's a lot to be said in my favor. For the moderate size house, you certainly would have a hard time beating me.

"Of course, I have a lot of relations in the round boiler family which I don't take much stock in. They are offshoots of the sturdy old Burnham stock under other names. They have married out of their class and cheapened themselves. You know what that means.

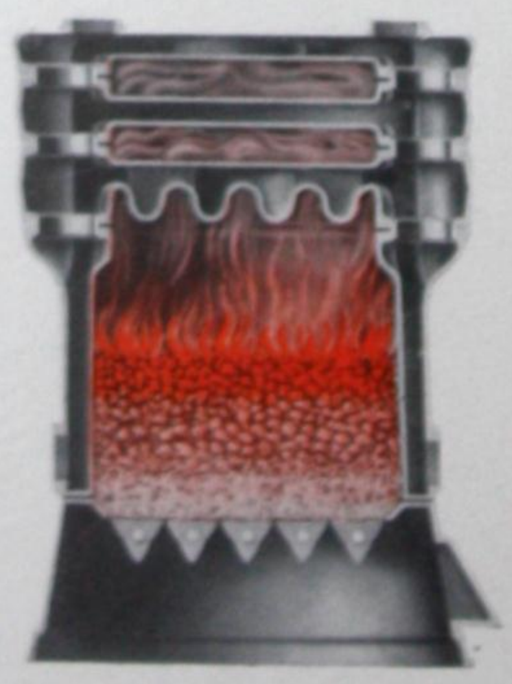
"They doll all up and put on the dog. But somehow I just can't feel sure of them.

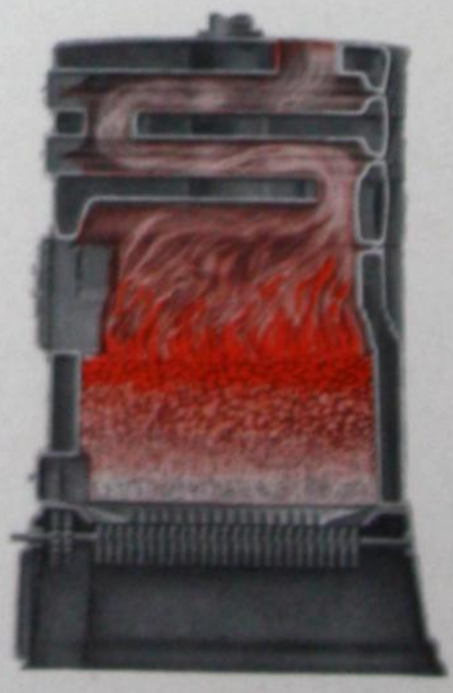
"I give you the real blown-in-the-bottle-brand of Burnham Cosy Comfort Heat. The heat from a pure blood Burnham Round Boiler. Burn coal, gas or oil. I make a powerful good showing automatically fired. In fact, am quite a general favorite with the oil burner folks. You will find me a warm friend on whom you can unfailingly depend."



"Here I am with swelling out of my h ready to do a speci fine job of hot wa heating, the way it s should be done."

"It isn't often I open up and let folks in on the inside. But sort of feel I can depend on you. So here I am opened up. Those wrinkles over the fire greatly increase my fuel saving usefulness. But why go into such details here."





"Now you are on the inside, you might as well take a look at my 'inmost innards'. Am built in sort of layers or sections. Note how the hot gases pass back and forth. It is called fire-travel. Because my fire-travel is so long, my coal bills are short."

THE SQUARE BOILER HAS ITS SAY

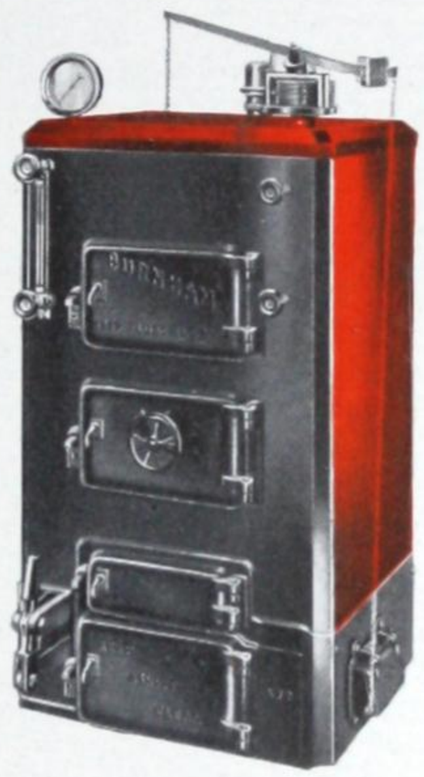
CONSIDERING how the Burnham Round Boiler is my full blood brother, it just wouldn't do for me to say anything against him. Don't know that I could anyway, he is such a dependable, straight-shooting, sure-fire performer.

"But, as is the case with any two brothers, some like one and some the other. Admittedly, there was a time when more liked him than liked me. But it is about even now, with the odds quite a bit in my favor.



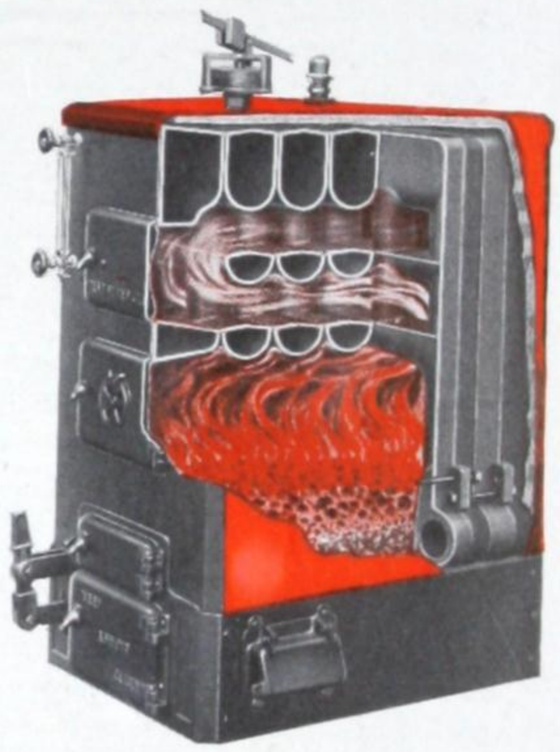
FOR OIL

n it comes to heating with oil, you take y grates and my Burnham family will h you with a nozzle plate in place of hpit door. I certainly do a satisfactory f heating with oil.'



FOR COAL

"Here is the way I look when ready to do you a real job of heating with coal. Wish I could show you how thoroughly insulated the inside of my jacket is."



INSIDE INFORMATION

"Had the famous surgeons, the Mayo brothers, cut me open this way, so you could see my long fire travel that makes the Burnham short fuel bill."

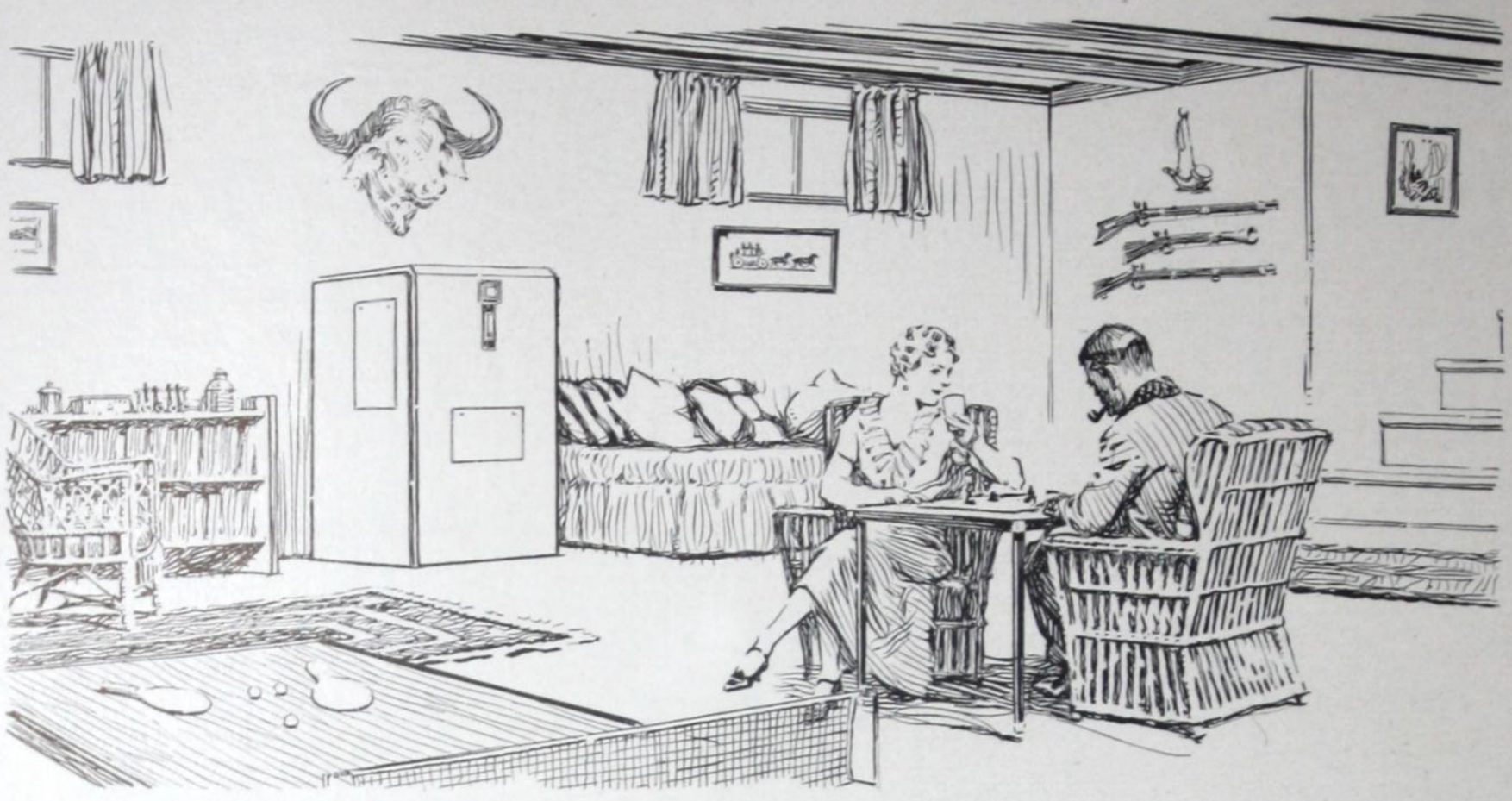
"You see he is built in layers — one on top of the other. I am built in sections, one side by side with the others.

"In cases where the cellar ceiling is low, I have a way of fitting in. Should additions be put on the home, another section can be added to me, when there might not be room for one on top of my round brother.

"So far as heat thriftiness is concerned, don't know as it becomes me to brag a whole lot. Still there are folks who simply wouldn't consider a round boiler. They like my squarish shape fire box and the easy way my grates shake. Some sizes have double grates, making it possible to run half the fire in early fall and spring, when only a little heat is needed. And all the grates when real winter weather comes. There isn't a doubt I save them fuel.

"My fire travel is long. Goes three-times-back-and-forth my full length, regardless of how many, or how few sections I have. It is that long fire travel that makes my short fuel bill, just as it does in the Round Burnham.

"Folks also like my swell clothes. My tailored jacket I'd have you know, is of the latest cut. It fits right into any dolled up cellar or recreation room, and unfailingly does the Burnham family full credit."



Let's Talk about Basement Recreation Rooms

. . . HOW BEST TO HEAT THEM

JUST BECAUSE PRESENT-DAY BASEMENTS have blossomed out into attractive play-places for the kiddies and recreation rooms for you grown-ups, you can't afford to mar their looks with a boiler that is so boilerish it is a sore-thumb-stick-out.

That's why our tailor-made jackets on our square coal boilers, and oil burning Burnhams receive such a welcome. They are sure enough good looking.

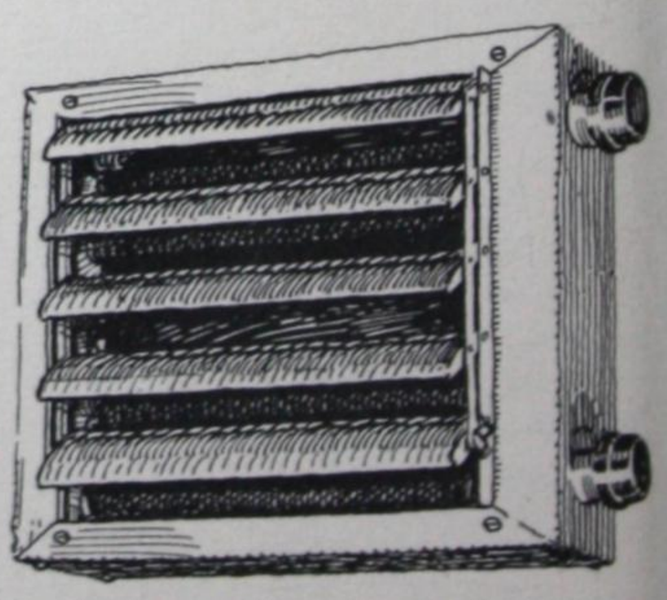
The oil burning one really has scarcely any ear marks of being a boiler. It looks more like a fine, splendidly proportioned cabinet.

Its finish of aluminum spatter dash, framed by an inch and a half bevel edge of true Mitis green, is a color scheme that will fit with practically any you may have in mind.

If your basement is so arranged that the boiler can be placed in a separate room, then the Unit Heater is a good fix. That's it at the right. It is a particularly efficient radiator somewhat like an automobile heater. Behind it is an electrically driven fan which forces the heat out into the room, doing a quick, positive job. The unit is connected by pipes direct from the boiler.

The Unit Heater can be painted any color you wish to harmonize with your general scheme, making it hardly noticeable.





UNIT HEATER

Takes up but little room.
Gives quick positive results.

Your Questions Answered

THESE QUESTIONS are the ones which are most asked either by letter or in person. Some of them may cover just the things you may also want to know. So here they are: However, don't hesitate to ask us anything else you may have in mind. Do it whether it is about just your boiler, or any other phase of the proposed heating you want to surely be satisfactory; or a system that is already in, and not satisfactory. You will find us rather pleasant people to do business with.

ABOUT HEATING IN GENERAL

. What proportion of the cost of the house will the heating be?

It averages about 9½ per cent. For example, for a house costing $5,000, at least four hundred and fifty of it would be for the heating. For a $10,000 one — $950.

. Which costs more, hot water or steam, and what is the percentage difference?

Steam costs less. Hot water costs about 20 to 25 per cent more because there must be double the amount of piping and the radiators are 60 to 65 per cent larger.

. Why does hot water require twice the piping of steam?

With steam, the one pipe carries both the steam from the boiler to the radiators, and the condensation from the radiators back to the boiler. With hot water, the entire system is filled with water, and in order to keep in constant circulation must have the same size pipes leading from the radiators to the boiler, as from boiler to radiators.

The radiators have to be much larger because hot water seldom gets much above 180 degrees and averages about 140; while steam is always at least 212 degrees.

To get the same result from hot water as steam, you therefore, must have a larger radiator to make up the difference of from about 40 to 70 degrees.

4. How does Vapor or Vacuum system differ from steam or hot water?

By the use of specially constructed valves, a partial vacuum is created in the pipes and radiators which lowers the boiling point of the water, allowing a hot vapor to enter the pipes several degrees before the boiling point of the water is reached.

The condensation is returned to the boiler by separate small pipes, insuring absolutely no interference with the passage of the vapor.

The partial vacuum created, holds the heat, and the valves prevent the air from returning to the system.

Therefore, the radiators hold the heat longer than steam radiators.

The radiators are about the same size as for steam. In effect, you get approximately the same even temperature and economical results as with hot water, with rather more flexibility. Vacuum Systems cost approximately the same as hot water.

5. Which burns the least coal, hot water or steam?

Some claim there is very little difference in the coal you burn. But hot water has an advantage in the way the latent heat in the water keeps right on heating a considerable time after shutting the fire entirely off.

When you start the fire you do not have to run the water up to practically boiling point before you get any returns, as with steam.

Hot water begins heating as soon as there is enough heat in it to make the water circulate. Just logically it should save fuel.

6. Can I enlarge a Burnham if we should later on decide to enlarge our house, or must I either buy too big a boiler now, or get an entirely new one then?

Most assuredly you can add to a Burnham as you add to your home. It's built in sections, quite like a sectional book case.

It's one of the strong points of all Burnhams.

7. Which is better the round or square boiler?

Glad you asked that question. It's important. Just turn to page 16.

8. Is there some kind of an attachment I can put on a Burnham, so it will give me a hot water supply?

Yes, indeed there is for steam boilers.
It's one of the cleverest little arrangements you ever saw.

One that fastens right on the side tappings of the boiler.

It is but little larger around than the usual can of tomatoes and about 12 inches long, but it will supply you with from 30 to 100 gallons of hot water every hour.

These heaters are supplied at slight additional cost.

For water boilers, a coil can be put right in the fire pot and give fairly satisfactory results.

For the best of results, however, we recommend our regular Burnham hot water laundry stove No. 11, which will supply abundant hot water for the average house.

9. Do we have to buy a Burnham direct from your boiler plants?

Not at all.

All heating men know about Burnhams, even if they may not have them in stock.

You can buy direct from them, and they will order it from us.

Should there not be a boiler man in your to will be glad to have you write to us direct.

If you are building or remodeling, and empl ing an architect, see to it that he specifie Burnham in your heating specifications.

To insure prompt deliveries we have a stock boilers in fifty main distributing centers.

10. If I buy a Burnham can we be sure of alw getting parts?

Just as sure as you can of any boiler.

We have been making boilers for well nigh years and never failed anyone yet.

From the look of things we will be doing b ness long after you'll need a boiler at all.

Questions about OIL HEAT

1. Do I have to have special radiators or piping for oil heating?

Most assuredly not. The same radiators, the same piping used for any hot water, steam or vacuum system, are used. However, before you decide on the kind of radiators, be sure and give careful consideration to the Burnham Slenderized ones, as told about on pages 8 and 9.

2. Do I have to buy an out-an-out oil burning boiler? Can't I use an oil burner with my present boiler?

Of course you can, and often with satisfactory results. But so much depends on the type of boiler you may have. Just naturally anything designed especially to do a certain job, does that job especially well. All Burnham Boilers because of their particular design, give fine results with the attached burners. But the special Burnham Oil Burning Boiler has certain built-in features and automatic controls which you may feel are a distinct advantage.

3. How about the oil tanks, must I dig a big hole in my yard and a ditch for the pipes from it to the burner?

Not at all. Most States now permit the placing of tanks inside, near the boiler. It is always good to have an ample size tank so you have enough oil in reserve in case of emergencies.

4. How about the comparative economy of automatic as against hand-firing of fuel?

That's a hard question to answer. Hard because the price of coal and oil varies so in different localities. Put it up to your local man. He can give you definite figures. But here's a point you should bear in mind. Oil heat is tirely automatic. No coal to shovel. No a to be taken care of. Your rooms need never chilly because of the fire "going down" having to wait for it to "come up," as called. Practically the instant the oil bu goes on, a full volume of heat is produ You can have your house warmed the sam night as during the day at very little, if additional cost. That's because it costs les keep a uniform temperature, than to let it d during the night and then have to overcome that accumulated cold by running the fire ha and longer.

So suppose you are located where coal ma somewhat cheaper, the comfort and practic entire freedom from attention required by over-shadows all else.

5. Is there any danger of something happen and the oil leaking out all over the place?

How about your water system, are you af of that happening? Would you go wit piped water through your house, just bec now and again a leak happens? With the v ing and automatic controls now used ther no more danger with the oil than the water. fact less, because the oil isn't under any pres at all until it reaches the flame nozzle th inside the combustion chamber or fire box.

6. How often should an oil burner be servic

Asking your friends or neighbors, one will once a month. Another every two months. another, two or three times a year.

Some car owners always change the oil e 500 miles. Others every 1000. The main t

seems to be, to do it systematically. As burners may vary in the attention needed, the concern you buy yours from can best answer the question. Even an electric ice box has to be looked after now and again. Still you wouldn't go back to the old cake-of-ice method would you? Isn't that after all your real answer?

7. Suppose something happens to the electricity or we can't get oil as soon as needed, can I temporarily burn wood or coal in your Special Oil Burning Burnham?

No you can't, because there is no provision for grates. But you can with a regular coal burning Burnham with an attached burner. But why borrow that trouble? How often do your electric lights go out for long enough a period to be any great hardship? As for the oil supply — that's no real problem these days, anymore than it is to get gasoline. The oil companies are generally the gasoline ones. The same dependable service that supplies one, does the other. So why fuss about that?

The coal man might not be able to bring your coal right on the tick of the clock. So why think one is a gamble and the other a safe bet?

8. Does my cellar have to be filled with a network of pipes and wires?

Whoever put that thought in your head? Of course not. Present day installations are down to such a fine point there's practically nothing in sight. One thing sure, there's no coal scoop, pokers or ash cans standing around. What is an electric wire, or pipe or two in comparison?

9. How about the dirt? Is oil heat clean?

Why shouldn't it be — there are no ashes. No coal dust. No anything but a fire that burns up everything.

0. Is there any odor?

Not in the least, if the installation is right and the burner is kept reasonably clean. The first you would insist on anyway. The other you would see was done just because it is common sense. Besides, every once in a while there is a gas from coal. But you never heard of anyone going back to wood, just for that chance occurrence did you?

1. How about noise?

By noise you, of course, mean the burner. As for the mechanism of the burner itself — the electric driven fan mainly — that has been so perfected it is of no consequence. It is the noise of the burning flame that could be the most disturbing. But that's a thing of the past with the Burnham Boiler. Everything is built into the boiler. Everything, burner and all, is enclosed inside the jacket. The burner chamber is lined with a sound deadening material. Even the door. You can rest assured that any burner you may put in this sound-hushed Burnham will be so quiet you and your guests will never know when it is either on or off.

12. How about the jacket on the Burnham Oil Boiler, does it give as good an insulation as the asbestos cement applied directly to the boiler?

Better. Far better. That's proven by the coolness of the jacket. You can put your hand on it at any time. The Burnham jacket is heavily lined with a combination of insulating and sound deadening materials. So you see, it is something more than mere looks back of the way Burnham jackets a boiler. It adds to looks, lessens noise, and it also spells economy.

13. Suppose anything happens to the insides of the Burnham Oil Boiler, how can anyone get inside the jacket to fix it?

Well, before the jacket is put on, the boiler and all the connections are first made. The jacket is no more than your overcoat is to you. If anything, it's easier to take your coat off than put it on. There's your answer about the Burnham jacket.

14. How can I tell how much room a Burnham Oil Burning Boiler will take up or how high it is?

All that you will find in our special catalog on the boiler. It is called "Automatic Cosy Comfort Heat." Gives you complete measurements and ratings. Send for it.

15. Suppose I have trouble with the boiler, who is going to make it right?

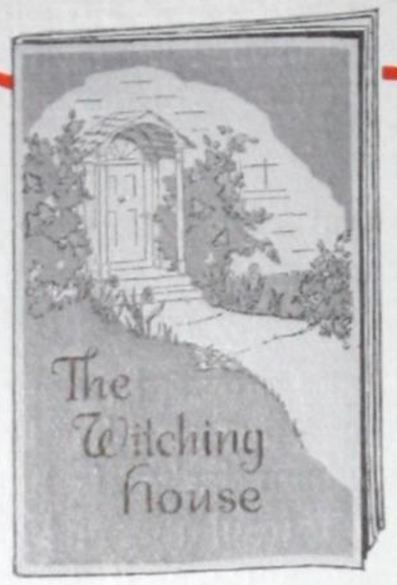
Go to the dealer you bought it from. If it's his fault, he will make good. If it's our fault he will take it up with us and you can depend on our being only too glad to see it's made right. We want our Burnham users satisfied. It isn't just being pleasant on our part. It's good business. Pleasant dealings and good business, happily make the best of teams.

16. Where can I buy a Burnham Oil Burning Boiler?

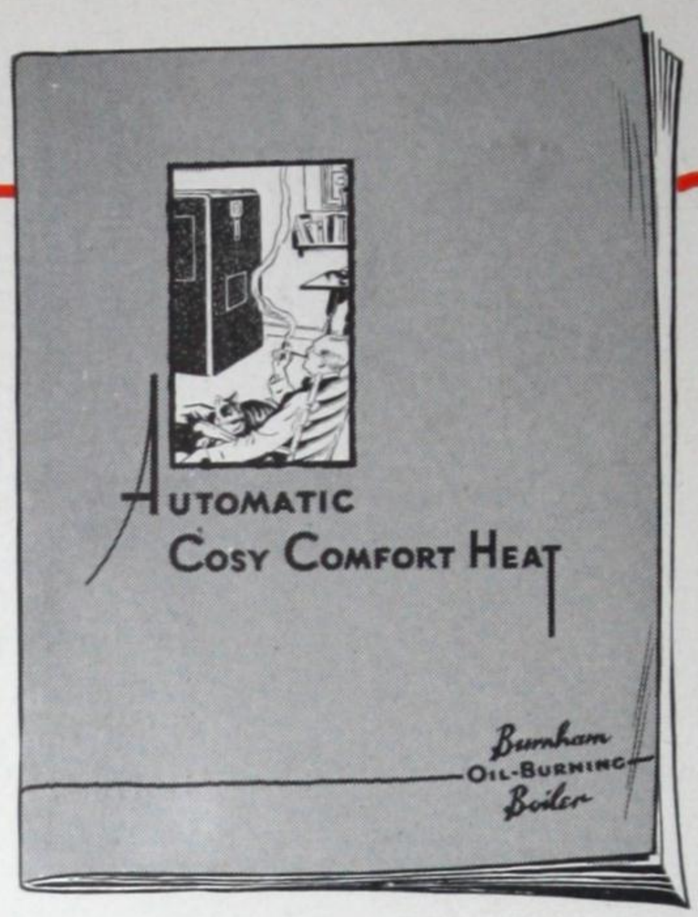
We don't sell direct. That is, from our factory direct to you. They must come through some dealer or contractor. If you don't happen to know any such in your section, just let us know and we will arrange all that for you.

It is distinctly to your advantage to have your heating boiler installed by an experienced dealer.

There are several oil burner makers who buy our boiler, equip it with their burner, and sell the complete unit. Boiler, burner, jacket and everything. Their reason for doing that is because the many superior points of the Burnham, insure satisfaction with their burners.



· 1 ·



· 2 ·



· 3 ·

Sent free

With the idea of helping you to have contentment of mind and comfort of body from your heating, we prepared these five pieces of printed matter. Let us know if you want any of them, and we will gladly send them free. And now just a comment. Greenhouses are the hardest of all things to heat, next to all outdoors. More greenhouses are being heated by BURNHAM than any other boiler. That fully answers any questions as to their proven efficiency.

1. Witching House

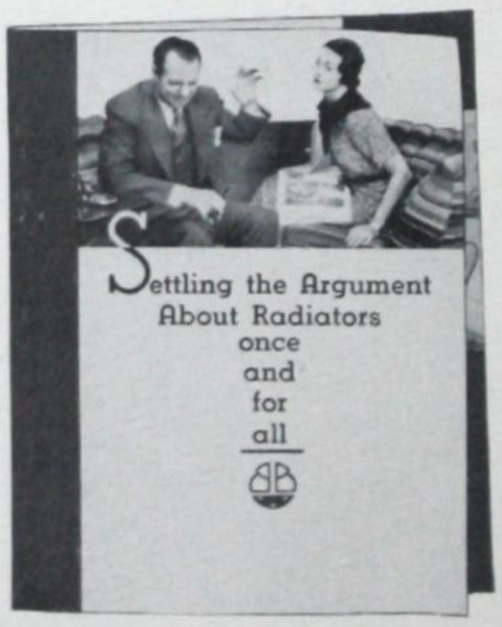
A delightful, personal, home-making experience as told by a man and wife. They bought an old Vermont Colonial farm house and fixed it up. To heat it was a vexing problem which *he* finally solved with *her* very important help. It's a truly charming human tale filled with unexpected help-hints. The way it mixes cards and cupboards, and heat and honey, is indeed illuminating.

2. Automatic Cosy Comfort

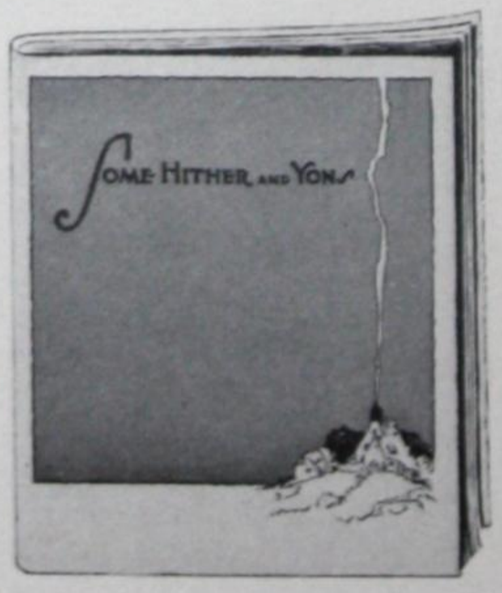
It has mainly to do with heating with oil. Told in a friendly, folksy way, quite as if one of your neighbors had dropped in to talk it over. Gives you a clear idea of exactly what automatic heat does for you, in assuring you contentment of mind and comfort of body. Has a number of illustrations you will find particularly helpful. By all means send for this one.

3. Lest You Forget

It starts by putting a string around your finger, and then tells you how it will help you from forgetting. Help you with the things, the remembering of which, helps to get the most heat, from the least coal, with the least bother. Of course, if you are going to burn gas or oil it doesn't fit into your picture.



· 4 ·



· 5 ·

4. Radiators

By all means send for this radiator prin ment. There is so much more to gett the right radiators and the right amou of heat from them, than you might thin There are plenty of illustrations and he hints. Am sure you will find things in which if you don't happen to know, y will certainly want to. Might save mon

5. Hither And Yon

Funny name that. But the booklet its is rather serious. It's about the serio subject of getting the right heat for yo particular needs. It is told, however, in friendly way. There are a dozen or mo two-page chapters covering practica everything you should know before d ciding on your heating.

It also tells you what to do after decidi which in a way is quite as important.

Here is what the title page says it is.

> "This is a bundle of Heat Thrift Hi as inspired by Benjamin Franklin a written by Katharine MacDowell a husband Ned, authors of the far-fam book known as 'Letters To and Fr Being now for the first time put in print."

PREPARED IN ENTIRETY BY
TUTHILL ADVERTISING AGENCY
1133 BROADWAY, NEW YORK

Now for prompt, efficient Service

TO SAVE YOU TIME AND ENERGY and insure competent, on-the-spot advice and service, we will be glad to send you the name of the accredited Burnham dealer in your locality. If you will indicate on the coupon below the booklets, described on the page facing, you would care to receive, they will go forward to you promptly.

The extra coupons are for your friends who may also be interested.

Burnham Boiler Corporation

IRVINGTON, NEW YORK

LANCASTER, PA. ZANESVILLE, OHIO ELIZABETH, N. J.

And All Principal Cities

Printed in U.S.A.
4391—11.

BOILER CORPORATION,
, NEW YORK.

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will be interested in receiving copies of the fol-
ng booklets:

hing House ☐ 3. *Lest You Forget*
matic Cosy Comfort Heat ☐ 4. *Radiators*
☐ 5. *Hither and Yon*

.....

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my architect.....

ny contractor.....

BURNHAM BOILER CORPORATION,
IRVINGTON, NEW YORK.

Please send me the name and address of your dealer in my locality.

Also, will be interested in receiving copies of the following booklets:

☐ 1. *Witching House* ☐ 3. *Lest You Forget*
☐ 2. *Automatic Cosy Comfort Heat* ☐ 4. *Radiators*
☐ 5. *Hither and Yon*

NAME .....

ADDRESS .....

Name of my architect.....

Name of my contractor.....

I BOILER CORPORATION,
, NEW YORK.

se send me the name and address of your dealer
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☐ 5. *Hither and Yon*

NAME .....

ADDRESS .....

Name of my architect.....

Name of my contractor.....

Burnham Home Heating Helps

told in a friendly way



Burnham Boiler Corporation

IRVINGTON, NEW YORK

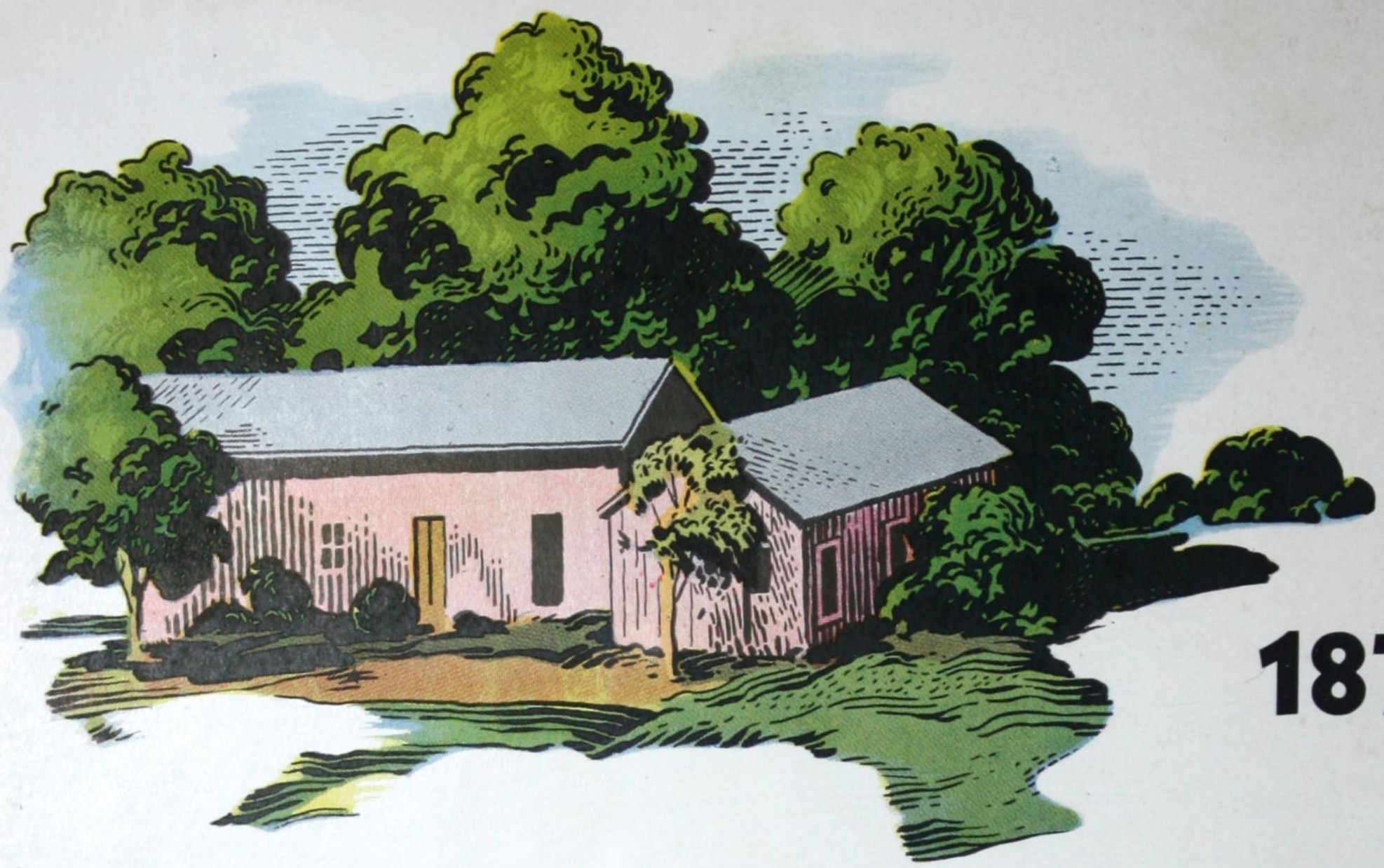


USE *Trustworthy*

Carey

MATERIALS

IN YOUR HOME



1873

Original Factory of The Philip Carey Company. From this modest beginning in 1873 has grown the modern plant illustrated below. In addition to the main plant The Philip Carey Company owns and operates asbestos mines in Canada and manufacturing plants at Plymouth Meeting, Pa., Hamilton, Franklin and Middletown, Ohio.



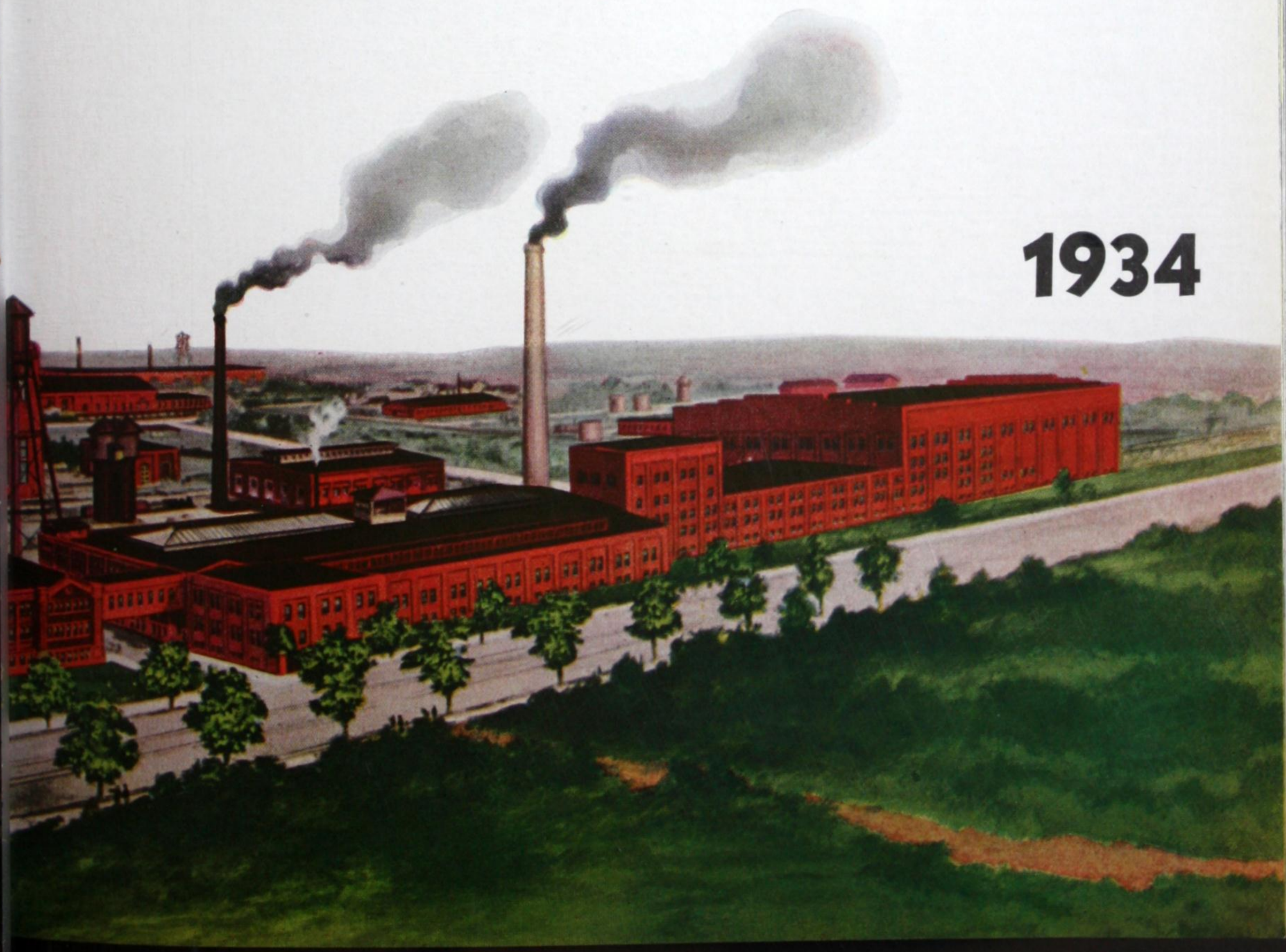
THE SEAL OF QUALITY
Carey
EST. 1873
DEPENDABLE PRODUCTS SINCE 1873

The "Carey" label is your assurance of a dependable product. It represents the accumulated experience of more than sixty years of pioneering and leadership in the manufacture of roofing and insulation materials.

Since 1873 the policy of The Philip Carey Company has been to spare no effort to improve the design and quality of Carey products. Constant research, a careful study of raw materials, manufacturing methods and actual conditions in the field, enable Carey to build extra years of service into their products.

Back of each Carey Product stands the reputation of a company that has been serving the building industry for more than half a century. Thousands of satisfied home owners throughout the country testify that Carey products fully deserve their reputation for outstanding quality.

THE PHILIP CAREY COMPANY
Lockland Cincinnati, Ohio



DEPENDABLE PRODU

LOOK AHEAD — before deciding on the materials that go into the construction of your home. Original cost is not the only factor to consider. An inferior product may cost a little less than a good one, but poor materials *cannot* give the same service as the best.

Every pound of raw material used in Carey Products is carefully selected and inspected. Then, as the raw materials are converted into finished products, each step is supervised by skilled inspectors. Finally they are tested and checked by a corps of experts in our Research Laboratory where each product must measure up to the high standard set by them. The result is assured value in the form of extra years of service at a price no more than you would pay for a product of uncertain value.

Regardless of whether you put $5,000 or $50,000 into the building of your home, you can give it no better protection than Carey roofing and other building specialties described in this book. Carey products have been time-tried and time-tested on thousands of homes in all parts of the country. You can buy Carey Products with the complete assurance that you will receive the years of dependable service that you can rightfully expect from your investment.





S FOR YOUR HOME

for the

ROOFS

Careystone Asbestos cement shingles, the permanent roof.
Carey Asphalt Individual shingles.
Carey Cork Insulated shingles—Roof and Insulation combined.
Carey Strip shingles.

FLOORS

Carey building and sheathing papers for use under flooring.

SIDE WALLS

Careystone Siding (shingle, clapboard and brick units). Fireproof—never require paint.
Carey Building and Sheathing Paper under siding.

PARTITIONS

Carey Asbestolath partitions—fire, heat and sound proof.
Careystone Scored Sheathing—for kitchen and bathroom walls.

FOUNDATION

Carey Damp-proofing and Waterproofing material for outside basement walls.
Careystone Sheathing applied to basement ceilings as a fire stop.

HEATING SYSTEMS

Careycel Insulation for hot water and steam heating systems.
Carey Tank Jackets for hot water tanks.
Carey pipe covering for cold water lines, soil pipes, etc.
Carey Insulation for Air Conditioning Ducts.

SIDEWALKS AND DRIVES

Carey Expansion Joints to prevent unsightly cracks in concrete work.

Your Carey dealer will gladly give you full information, show samples and quote prices on Carey Products. See him today—if you don't know his name get in touch with the nearest Carey Sales Office listed on the back cover of this book or drop a postcard direct to The Philip Carey Company, Lockland, Ohio.

Careystone ASBESTOS CEMENT SHINGLES



CONVENTIONAL AMERICAN METHOD



STAGGERED AMERICAN METHOD



SCOTCH METHOD

You wouldn't think of building a home without a permanent foundation? Can you afford to build without a permanent roof? Think what a permanent roof saves you—in upkeep and repair expense—in insurance against costly leaks—in avoiding the necessity of ripping off old shingles and paying for a new roof. Consider, too, the security of living under a fireproof roof—a roof on which sparks, embers and even burning brands fizzle out harmlessly. In addition you get the benefit of the lowest fire insurance rates.

All these advantages — all these savings — are yours with a roof of Carey Asbestos Shingles! Once laid, your roof worries are over for all time—you have only to enjoy the beauty and trouble-free protection these shingles give.

American Method

(Heavy and Standard Weights)

Careystone American Method Shingles are 8⅛ x 16¼ inches in size and are made in two weights. The heavier shingle being 5/16 of an inch thick and weighing approximately 650 pounds per square (100 square feet of roof surface). The standard weight shingle is 3/16 of an inch thick and weighs approximately 465 pounds per square.

Careystone American Method Shingles can be applied in the conventional manner as shown in the top illustration at the left or in the staggered method of application as illustrated. Various colors may be combined to produce many attractive effects.

Colors: Windsor Gray, Georgian Red, Weathered Brown, Tudor Black, Bristol Green.

Underwriters' Class A Label on both weights.

Scotch Method

Careystone Scotch Method Shingles have the texture and appearance of the American Method but cost little more than the French method. An excellent shingle for homes where the element of cost is an important factor.

Size: 16 x 16 x 3/16 inches.

Colors: Windsor Gray, Georgian Red, Weathered Brown, Tudor Black, Colorblend, Bristol Green.

Weight: Approximately 320 lbs. per square.

Underwriters' Label Class B.

fireproof ... permanent

Careystone Shingles are different. They are surface ridged and fissured to give that time mellowed, weather-aged look that formerly only age could bring. By a scientific process, selected Portland Cement is re-inforced with everlasting asbestos fibres and combined under great pressure into a permanent shingle possessing natural properties that enable it to resist the destructive influences of time, and in addition, possess that peculiar property of increasing in toughness and strength upon exposure to the elements. They never require painting or other upkeep expense, and will last as long as the home upon which they are applied.

Duplex Shingles

(Duplex No. 1—Duplex No. 2)

Careystone Duplex shingles cost less to apply because each shingle is double and only half the number of shingles must be handled to cover a given space and in addition, the side notch makes them self-spacing and self-aligning, thereby permitting faster application.

Duplex No. 1, is made with uniform width tabs for those who prefer a definite roof pattern. Duplex No. 2, is made with tabs of two different widths which are automatically alternated when applied, making a roof of broken pattern.

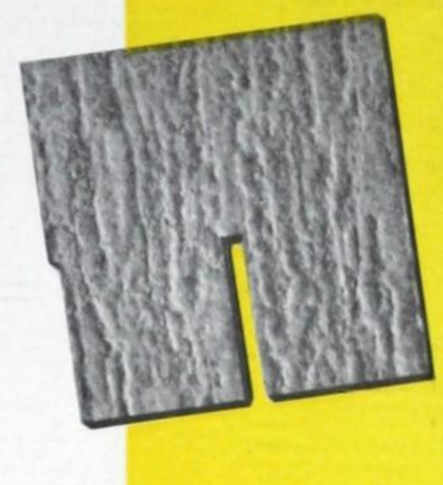
Quantities of No. 1 and No. 2 Duplex shingles can be furnished so that when applied they produce a random width effect which adds greatly to the appearance of any roof.

Both No. 1 and No. 2 Shingles are 16 x 16 x 3/16 inches. Duplex No. 1 has two uniform tabs each 7⅝ inches wide. Duplex No. 2 has one tab 5⅝ inches wide and one tab 9⅝ inches wide.

Colors: Windsor Gray and Bristol Green.

Weight: Approximately 465 lbs. per square.

Underwriters' Label Class A on both No. 1 and 2.





DUPLEX NO. 1





DUPLEX NO. 2

French Method

Made of Careystone (Asbestos and Cement) but with a smooth stone-like surface combining beauty, protection and permanent service at low cost.

Size: 16 x 16 x 3/16 inches.

Colors: Gray, Red, Brown, Black, Colorblend, Green.

Weight: Approximately 265 lbs. per square.

Underwriters' Label Class B.



FRENCH METHOD

Carey ASPHALT INDIVIDUAL SHINGLES



LARGE SIZE ASFALTSLATE





SMALL SIZE ASFALTSLATE



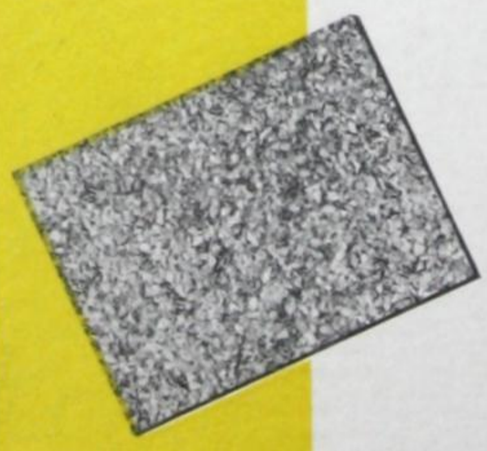


EXTRA HEAVY CAREYLOK





STANDARD CAREYLOK



Asfaltslate Shingles

(Large and Small Sizes)

Carey Asfaltslate Shingles represent the standard of quality in composition roofs. Conventional in design with full three thickness coverage to assure the maximum amount of roof protection. These shingles have a base of tough rag felt thoroughly saturated and coated with asphalt. A layer of colored mineral granules is applied to provide a durable wearing surface.

Carey Asfaltslate Shingles are built especially rugged and substantial to give extra years of trouble-free service. Heat, cold, wind, rain and climatic proof against all ordinary fire risks such as flying sparks from chimneys and burning brands from neighborhood fires. There is a sense of security and satisfaction in knowing that your home is protected from fire, weather and against time with a roof of Carey Asfaltslate Shingles.

Carey Asfaltslate Shingles are offered in two sizes. The large size is 12 x 16 inches and weighs approximately 315 pounds per square. The smaller size is 9 x 12¾ inches and weighs approximately 240 pounds per square.

Colors: Indian Red, Dixie Green, Empire Green, Blue-black and Colorblend. The large size is also furnished in Tapestry and Tile Red.

Underwriters' Class C Label on both sizes.

Careylok Shingles

(Extra Heavy and Standard Weights)

The composition of Careylok Shingles is the same as Asfaltslate. They are designed to meet the demand for a weather tight, storm proof, snug fitting roof at a minimum price. They have conventional, straight vertical and horizontal lines so much preferred by the home builder and are held firmly in place with a special copper anchor. Careylok shingles are designed so that they can be laid on the roof at a great saving in material and labor cost. They can be applied with single or double coverage depending on the length of service desired.

A sheet of asphalt saturated felt weighing not less than 30 lbs. per 100 sq. ft. or preferably a Carey roll roofing should be laid on the sheathing board before Careylock shingles are applied.

Careylok Shingles are 12 x 16 ins. in size and are made in three different weights. The extra heavy shingle weighing approximately 155 pounds per square, the medium weighing 154 pounds per square and the standard shingle weighing approximately 135 pounds per square.

Colors: Indian Red, Dixie Green, Empire Green, Blue-black, Tapestry and Tile Red.

Underwriters' Class C Label on all weights.

Carey ASPHALT STRIP SHINGLES

The manufacturing methods used to produce Carey Strip Shingles are the same as used in manufacturing Individual Carey Asphalt Shingles, except that in the final operation the finished shingle is cut into multi-units (2, 3 or 4 shingles in one strip). A feature of Carey Strip Shingles is that they can be applied faster than Individual Shingles, which means a saving in application cost.

Hexagonal Strip Shingles

(Four Weights and Three Sizes)

Carey Hexagonal Strip Shingles when laid on the roof, produce the effect shown in the top illustration at the right. This type of shingle is made in four different weights and three different sizes to meet the various requirements of service and cost. They are available in the following colors: Indian Red, Tile Red, Empire Green, Blue-black, Tapestry, Dixie Green and Colorblend.

Square Tab Shingles

(Two Weights and Three Sizes)

Carey Square Tab Strip Shingles when applied to your roof give practically the same effect as individual asphalt shingles. They are made in two different weights and three different sizes and are furnished in the following colors: Indian Red, Tile Red, Canyon Red, Dixie Green, Empire Green, Spring Green, Blue-Black, Tapestry, Colorblend.

ROLL ROOFING

To meet the demand for a good low priced, quickly applied roofing material, the Philip Carey Company offers a complete line of ready-to-lay roll roofings in various weights and finishes to meet every requirement.

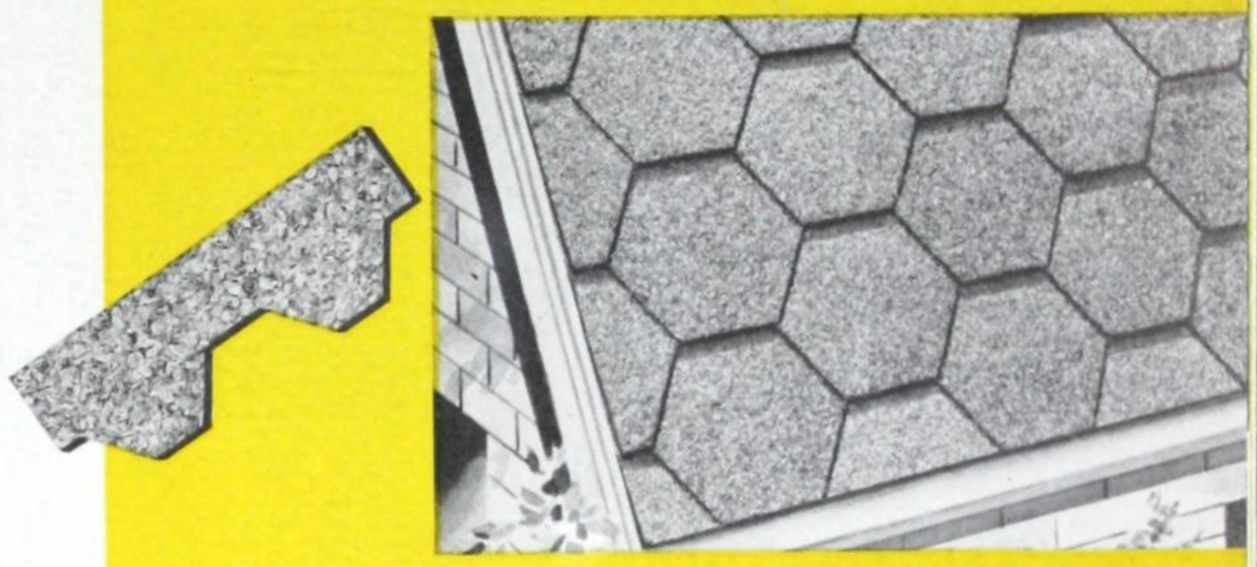
BUILDING PAPERS AND FELTS

Carey Waterproof Building Paper keeps out dampness, grit and wind, thus insuring a more comfortable home. Various types and weights of Building Paper are manufactured to meet practically every requirement in the construction of the home.

BUILT-UP ROOFS

For flat roofs where shingles would not be practical, Carey Built-up Roofing is recommended. If the plan for your home calls for a flat roof construction be sure to find out about these time tried Carey Built-up Roofs.





HEXAGONAL STRIP SHINGLES



SQUARE TAB STRIP SHINGLES





CO

DEPENDABLE, waterproof protection always has been and always will be the first requirement of a good roof. But today home-owners are no longer content with a roof that merely keeps out the weather. They want a roof that adds charm to the house—for they recognize that the roof is a dominant feature in the design of any home exterior. In fact, half of the average house, as seen by the man in the street, is roof. How important, then, that you select a roof that is in complete harmony with the architecture of the home. A roof that in color and texture gives just that added touch of dignity and charm needed to emphasize the character of the home.

Too often we see homes where the selection of shingle colors seems to have been made with little consideration for the permanent appeal which that roof should

CAREYSTONE ASBESTOS CEMENT SHINGLES

Tudor Black | Colorblend | Georgian Red | Bristol Green | Windsor Gray | Weath



ORS

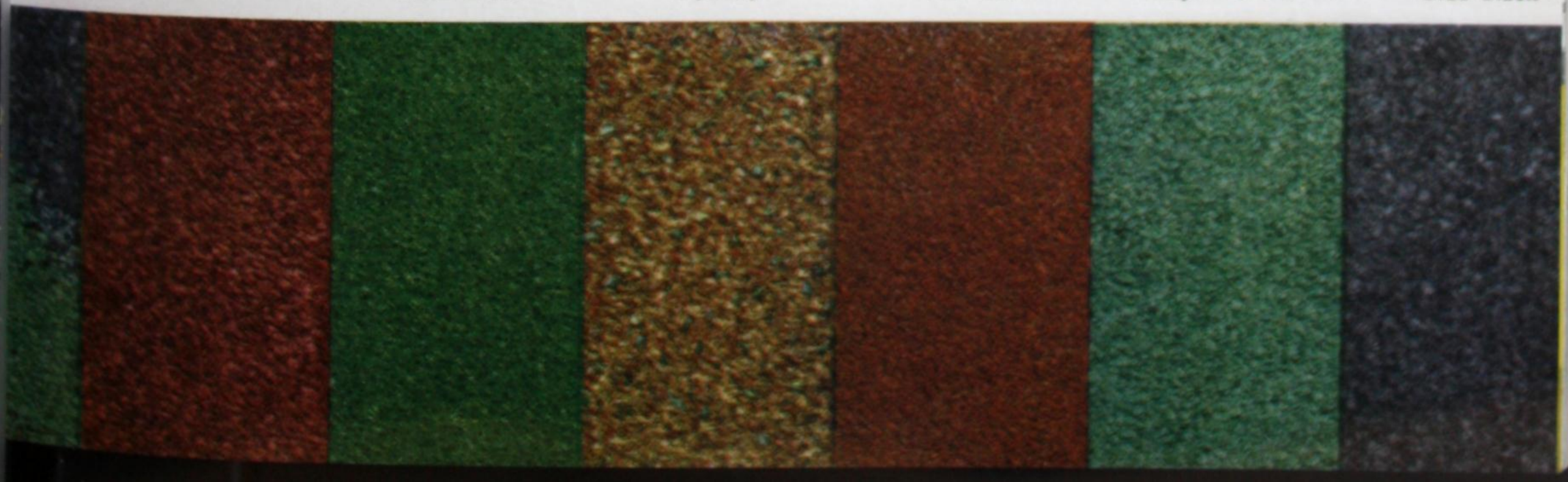


bring to the house. Therefore Carey colors, while adequately wide in variety, are confined to colors of everlasting appeal; in permanent harmony with the architecturally correct exterior.

Carey Shingles are available in nature's own colors—warm reds, cool greens and blended tones as reproduced below.

Carey Shingle colors have been developed after years of experience in satisfying the individual preferences of home owners and the rigid requirements of architects and contractors. We will gladly furnish samples of any of these colors so that you may try them in various combinations and in this way be entirely confident that your final color selection is right.

CAREY ASFALTSLATE SHINGLES



Carey CORK INSULATED SHINGLES



Heating Engineers estimate that sixty per cent of the heat leakage from a house goes through the roof.



Suppose you could put a sun shade over your home in summer time to keep the sizzling sun from beating down on it.



And suppose that on cold, blustery winter days, you could cover your home with a warm weather-proof blanket.

YOU can do BOTH with one roof

How to keep the home cooler in summer and warmer in winter is a problem every home-owner is trying to solve. The Philip Carey Company's answer is a unique roofing material that sheds heat and cold as well as water. Carey Cork Insulated Shingles are made in the same manner as Carey Asfaltslate Shingles, but during the process of manufacture, a layer of granulated cork is added to the under-side of the shingle, thus providing a very effective roof insulation that is automatically applied at the same time the roof is put on, eliminating the extra cost of material and labor involved when separate roof insulation is used.

Carey Cork Insulated Shingles will keep your home many degrees cooler in summer and correspondingly warmer in winter with a substantial saving in fuel.

They cost but a fraction more than ordinary shingles. They are extra thick and when applied give that deep shadow line that adds so much to the appearance of the finished roof.

The simple test illustrated shows three thicknesses of ordinary shingles and three thicknesses of Cork Insulated Shingles (thickness of a finished roof) subjected to the same amount of heat. The thermometers resting on the top of each roof show an actual difference in temperature of 10 degrees, illustrating the insulation value of Carey Cork Insulated Shingles as compared to an ordinary shingle roof.



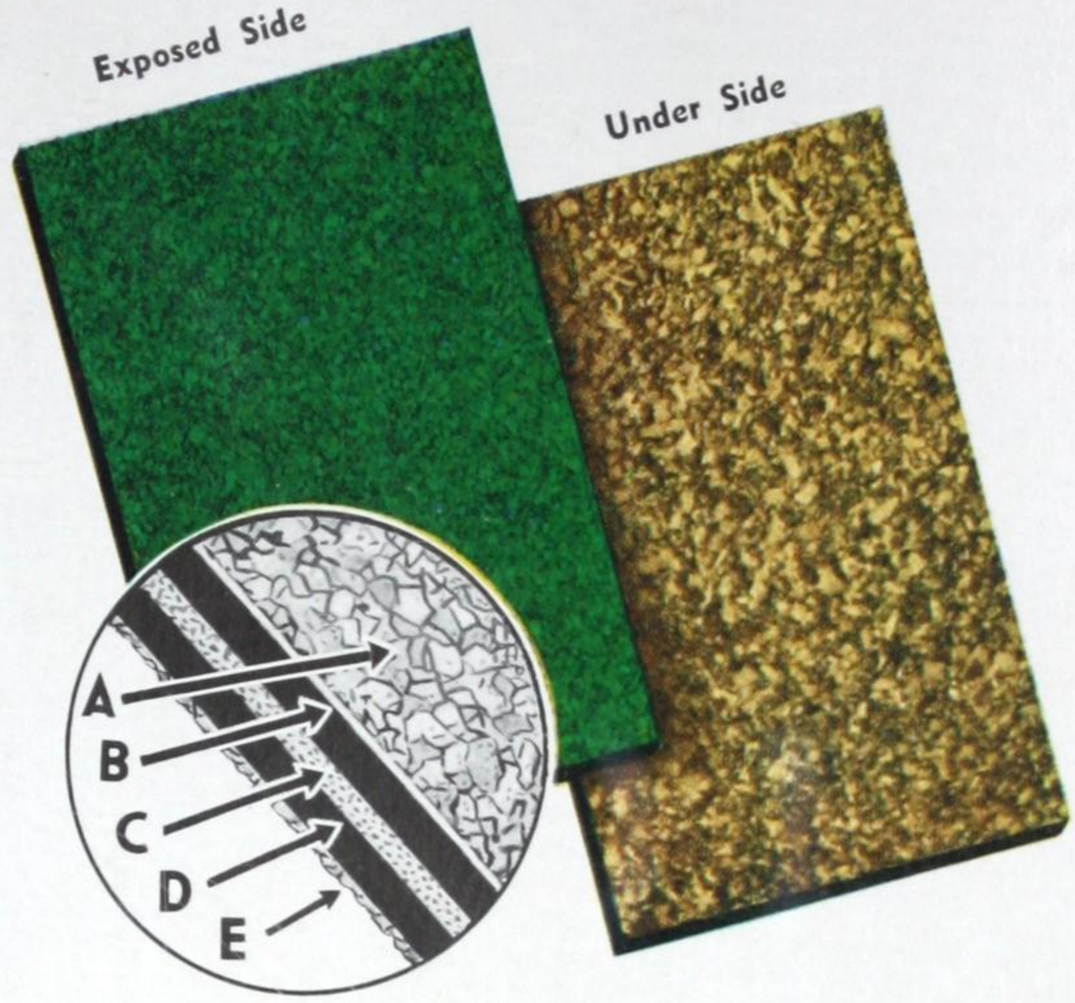
OFING *and* INSULATION COMBINED

The extra thickness of Carey Cork Insulated Shingles produces beautiful shadow lines on the roof, and the additional asphalt coating into which the ground cork is embedded greatly increases their water-proofing value, and adds many years to the weather resisting life of the roof itself.

The illustration on the right shows the construction of Carey Cork Insulated Shingles.

A. Mineral surface
B. Waterproof Asphalt
C. Waterproof Felt
D. Waterproof Asphalt
E. Layer of CORK

This Cork Insulated Shingle is an exclusive Carey Product, fully protected by patents and can be secured only through Carey Dealers.



Cork Insulated Individual Shingles

The individual Cork Insulated Shingles are 12 x 16 inches in size and weigh approximately 335 pounds per square. They are made in the following colors: Tile Red, Blue-black, Dixie Green. Carey Cork Insulated Shingles carry the Underwriters' Class C Label.





CORK INSULATED INDIVIDUAL SHINGLE

Cork Insulated Strip Shingles

(*Heavy and Standard Weights*)

Carey Cork Insulated Strip Shingles are made in two weights. The heavier weighing 255 pounds per square is furnished in the following colors: Dixie Green, Blue-black, Tile Red. Underwriters' Class C Label.

The Standard weight strip shingle weighs 210 pounds per square and is furnished in Dixie Green, Blue-black, Tile Red, Spring Green and Canyon Red colors.



CORK INSULATED STRIP SHINGLE



THE SEAL OF QUALITY
Carey
EST. 1873
DEPENDABLE PRODUCTS SINCE 1873

Careystone ASBESTOS CEMENT SIDI



Home builders have long realize the economy of using fireproof maintenance-free, materials in th construction of their homes; wit the development of Careystone Sid ing they can now secure all of th charm of wood shingles in a fir proof, permanent material tha never needs paint.

Careystone Siding Shingles hav the appearance of attractive woo shingles. The texture is an exac reproduction of wood grain set i everlasting Portland cement an asbestos fibres.

The reduction in upkeep expens makes Careystone siding a sple did investment. When your hom is covered with this permanent ma terial it will never be necessary t spend a penny for painting the sid walls.

These many advantages shoul prompt every home builder to i vestigate this revolutionary sidi material.



RANDOM WIDTH SIDING

Random Width Siding

The Random Width appearance and Americ Method of application result in making this t ideal siding shingle. The saving in material as result of the cone shaped top and the econon of application caused by the size of this shing result in a surprisingly low original cost.

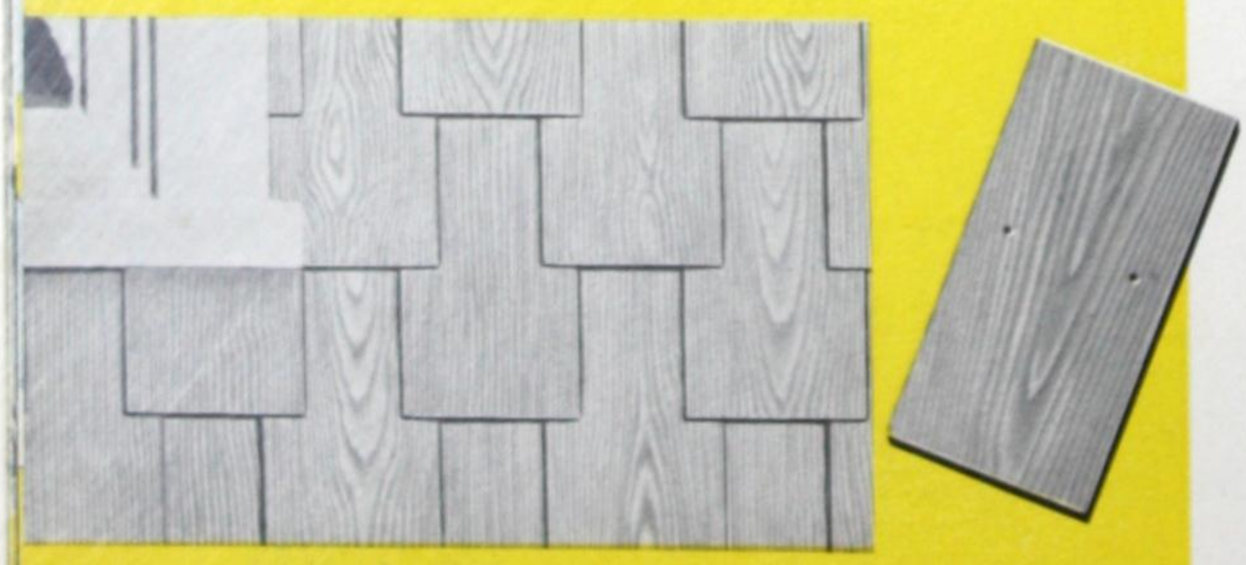
Size: 16 x 16 x 3/16 ins., exposed surface score 60 scored pieces 6″—4″—6″ wide, 60 scor pieces 4″—7″—5″ wide.

Total 120 pieces per square.

Head lap 1″. Exposure 7½″ x 16″.

Colors: Sea Green, Manchester Gray, Mottl and Light Brown.

Weight: Approximately 335 lbs. per square.



QUEEN ANNE SIDING

Queen Anne Siding

The decided vertical lines of Queen Anne Wi Spaced Siding are particularly adaptable to bu galows or one-story buildings where an impr sion of height is desired.

Size: 8 x 16 x 3/16 ins.

Colors: Manchester Gray, Sea Green.

Weight: Approximately 265 lbs. per square.

...fireproof ...permanent

ape Cod Shingles

his unit with its straight horizontal lines can be sed effectively on tall residences or buildings here it is desired to diminish the appearance f height.

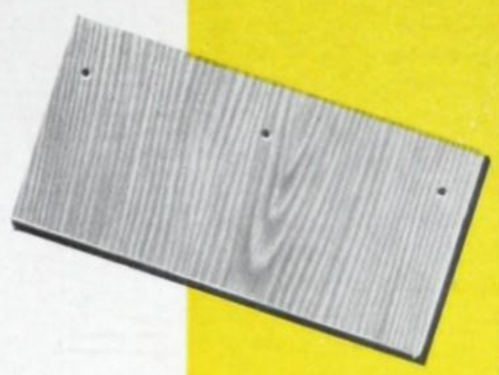
ize: 8 x 16 x 3/16 ins.

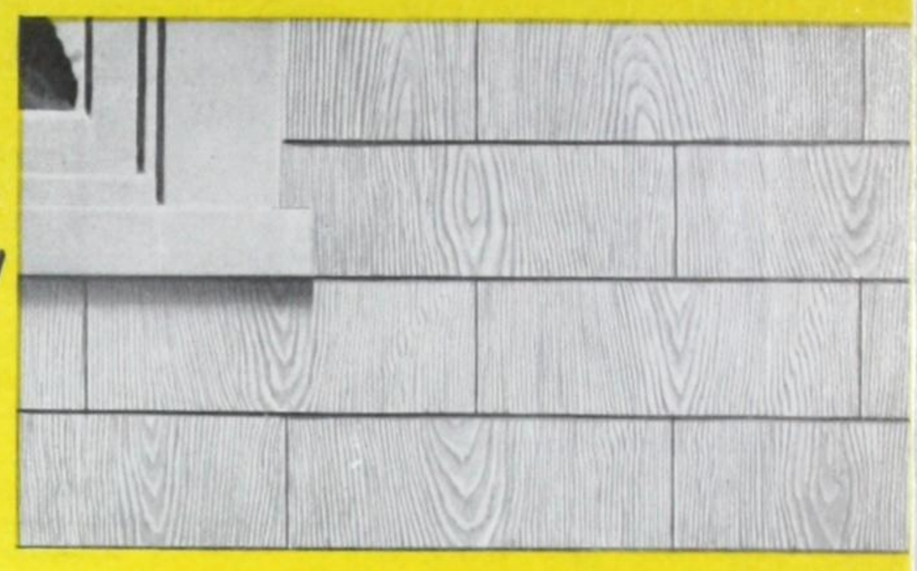
xposure: 5½ x 16 ins.

rolls (220 feet) 7¼ in. wide aluminum sur- ıced waterproofing felt furnished with each quare to waterproof vertical joints.

olors: Sea Green, Manchester Gray.

Veight: Approximately 165 lbs. per square.





CAPE COD SIDING

lipped Corner Siding

he appeal of the beautifully grained surface of ıis shingle together with its attractive vertical nes makes this a most desirable unit and its lf-aligning method of application causes it to e unusually economical.

ize: 8 x 16 x 3/16 in. 147 shingles per square.

xposure: 7 x 14 ins. 1 in. head lap, 2 in. side lap.

olors: Sea Green, Manchester Gray, Mottled nd Light Brown.





CLIPPED CORNER SIDING

olonial Clapboards

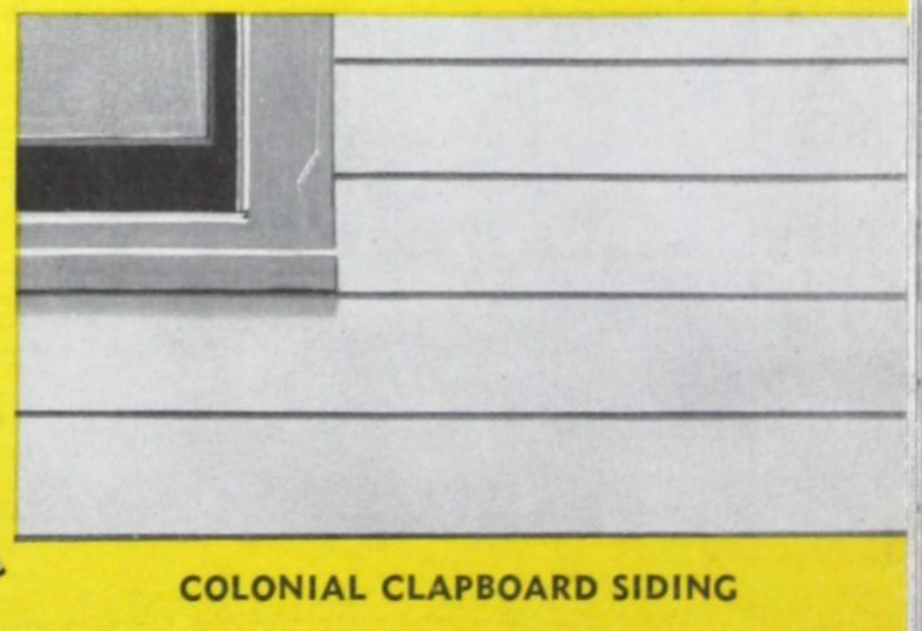
)ne of the finest siding units ever developed. an be effectively used on almost every style of rchitecture. It also produces a pleasing con- rast when used in conjunction with other types f Careystone Siding Units, whether for upper tory or gable end treatment. Recommended for ables and Sidewalls.

olor: French Gray.

Weights: Approximately 325 lbs. and 410 lbs. er square.

izes: ¼ x 9 ins. by 8 ft. and 5/16 x 9 ins. by 8 t. Headlap 2 ins. Exposure 7 ins. Drilled for ailing. 11¾ in. centers.





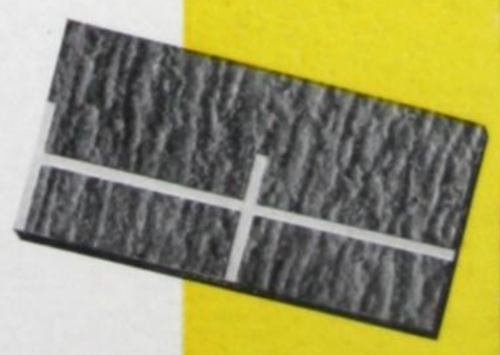
COLONIAL CLAPBOARD SIDING

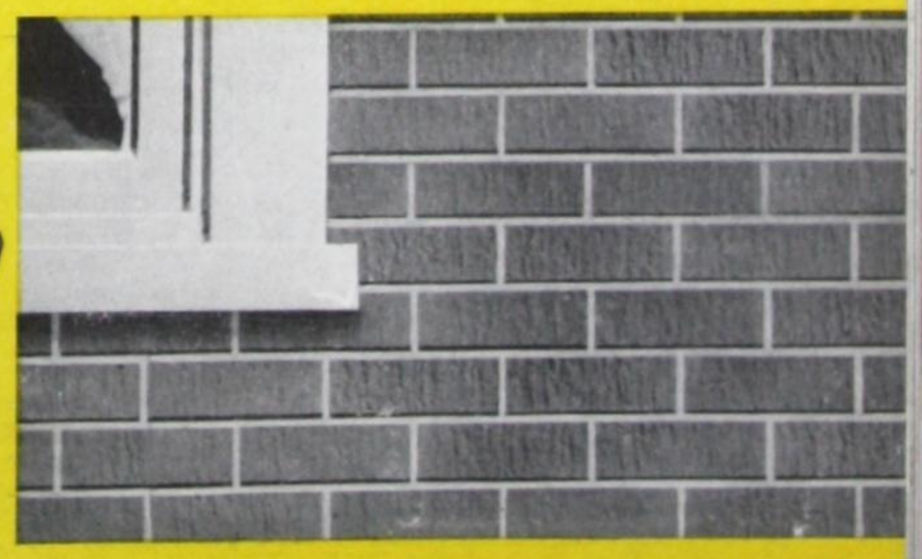
Normandy Brick Siding

ooks, wears and feels like brick. Rigid and trong. Ideal for building a new fireproof side- vall right over the old wood siding. Unit size x 16 x 3/16 ins. Brick size 2½ x 7⅝ ins. 3 in. xposure includes ½ in. wide horizontal mortar ine; vertical mortar line ⅜ in.

olor: Brick Red.

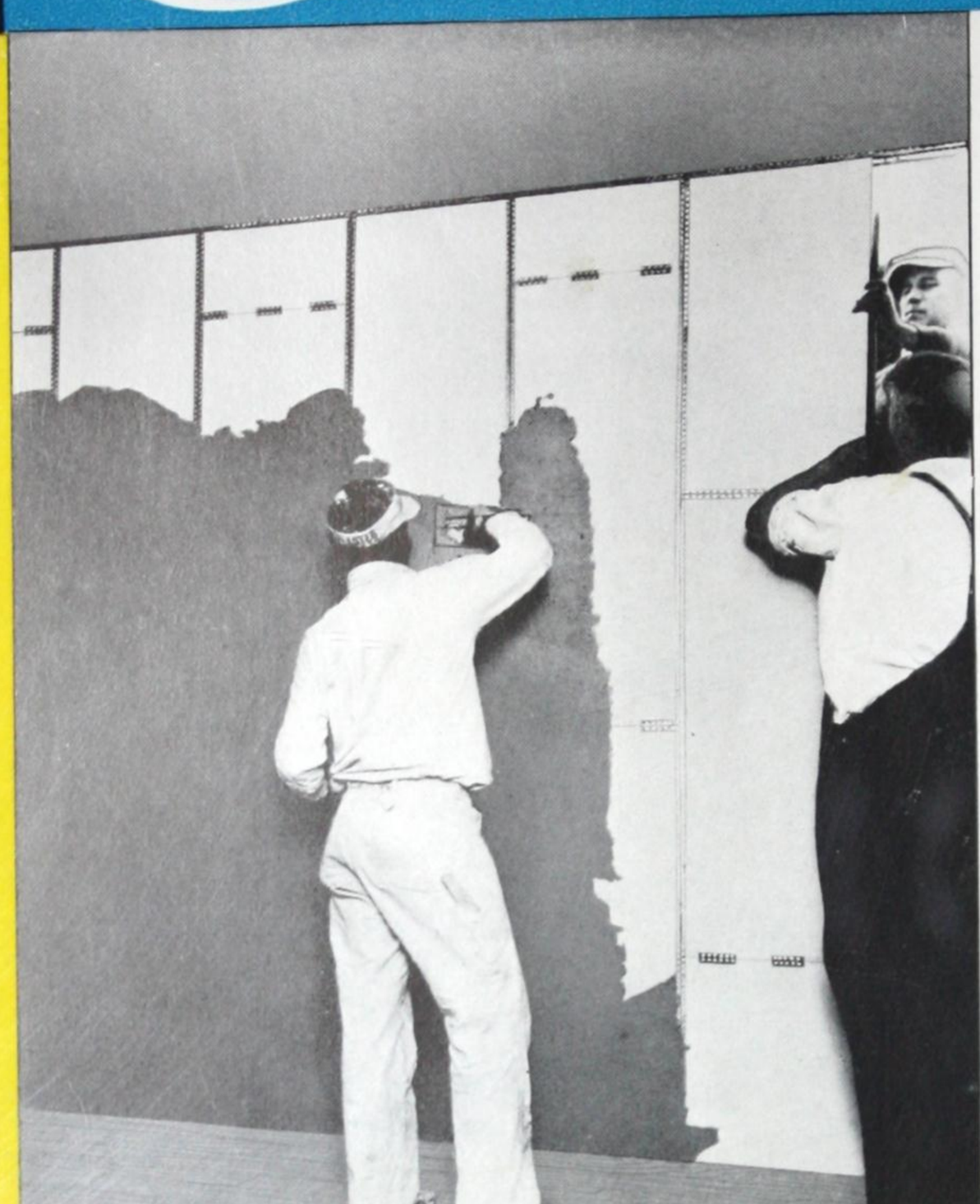
Weight: Approximately 520 lbs. per square.

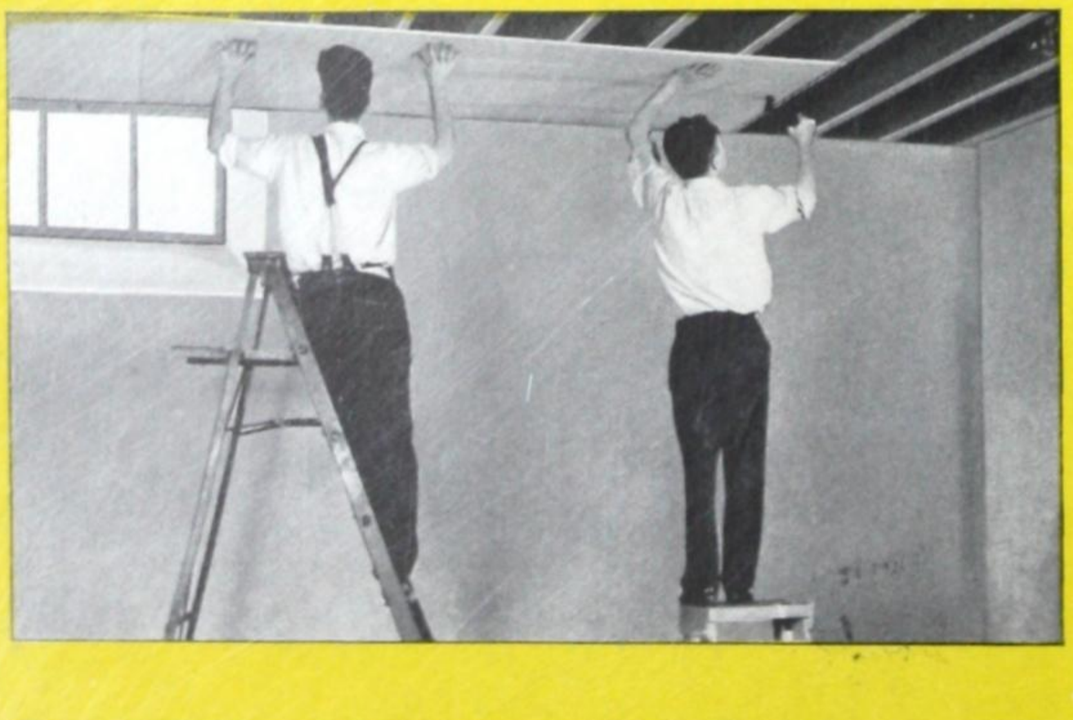




NORMANDY BRICK SIDING

Carey ASBESTO-LATH PARTITION







Carey Asbesto-Lath Partitions

Carey Asbesto-Lath Partitions were developed to meet the demand for a light weight non-bearing partition that would act as a barrier to fire, heat and sound, and at the same time keep the thickness of the partition down to the minimum.

It provides an excellent plaster base and in it can be accommodated electrical conduits, gas and water lines. The sound absorption qualities of Carey Asbesto-Lath Partitions is far superior to that of ordinary partitions as the asbesto-lath base has high acoustical properties.

There is nothing in Carey Asbesto-Lath Partitions to support combustion or the growth of vermin. They are space-saving, fireproof and economical.

Careystone Asbestos Sheathing

Careystone Asbestos Sheathing is fireproof, vermin-proof and rustproof. It is weather resistant and may be used for either exterior or interior sheathing. It is readily cut, drilled and sawed and is used for walls, ceilings, paneling and partitions. It can be applied directly to wood studding and may be decorated in any fashion.

Due to its fireproof qualities it makes an excellent fire stop when applied to basement ceilings.

Size: 48 x 96 ins. and in thicknesses ranging from 1/8″ to 2″.

Sheets can be cut at factory to any required sizes but material may be easily worked on the job with ordinary carpenter tools.

Careystone Scored Sheathing

Careystone Scored Sheathing is made from the same material (asbestos and cement) as the fla sheathing described above. Each sheet is scored to secure a tile effect (4″ x 4″ squares). It i used mainly for walls in kitchens, bathrooms breakfast rooms and other places where a til effect wall is desirable. It can be easily painted to suit individual tastes and will give the appear ance of a tile wall at a great saving in labor and material costs.

Careystone Scored Sheathing is easily and quickly applied. It is furnished in sheets 48″ 96″ in size and in various thicknesses.

Carey DAMP-PROOFING and WATERPROOFING

Damp-Proofing and Waterproofing

Basements that are not properly protected against the seepage of ground water become damp and unhealthful. Ground water comes down the outside foundation walls, soaks through the cement and evaporates INSIDE, making the basement damp and clammy. To avoid this—to make sure that your cellar will be as dry and healthful as your living room, be sure that Carey Water Proofing Materials are included in your specifications for the construction of your home.

Carey Percoproof Coating

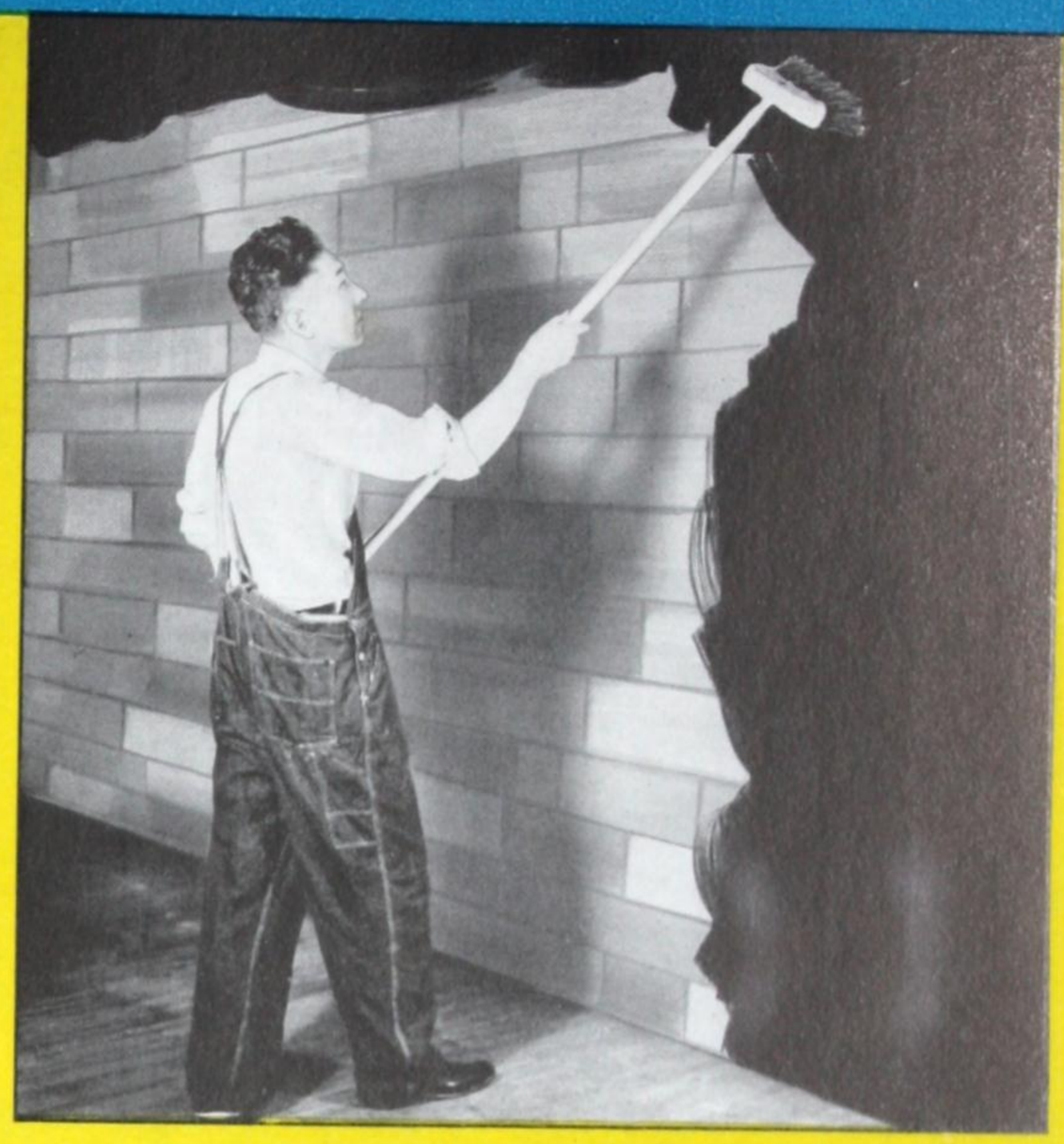
This compound applied on the outside wall penetrates the pores of the foundation walls and seals out the ground water which insures a dry healthful basement. It can be easily applied by unskilled labor and comes in cans ready for use. Must be applied only to the outside of the wall —preferably while the building is being erected.

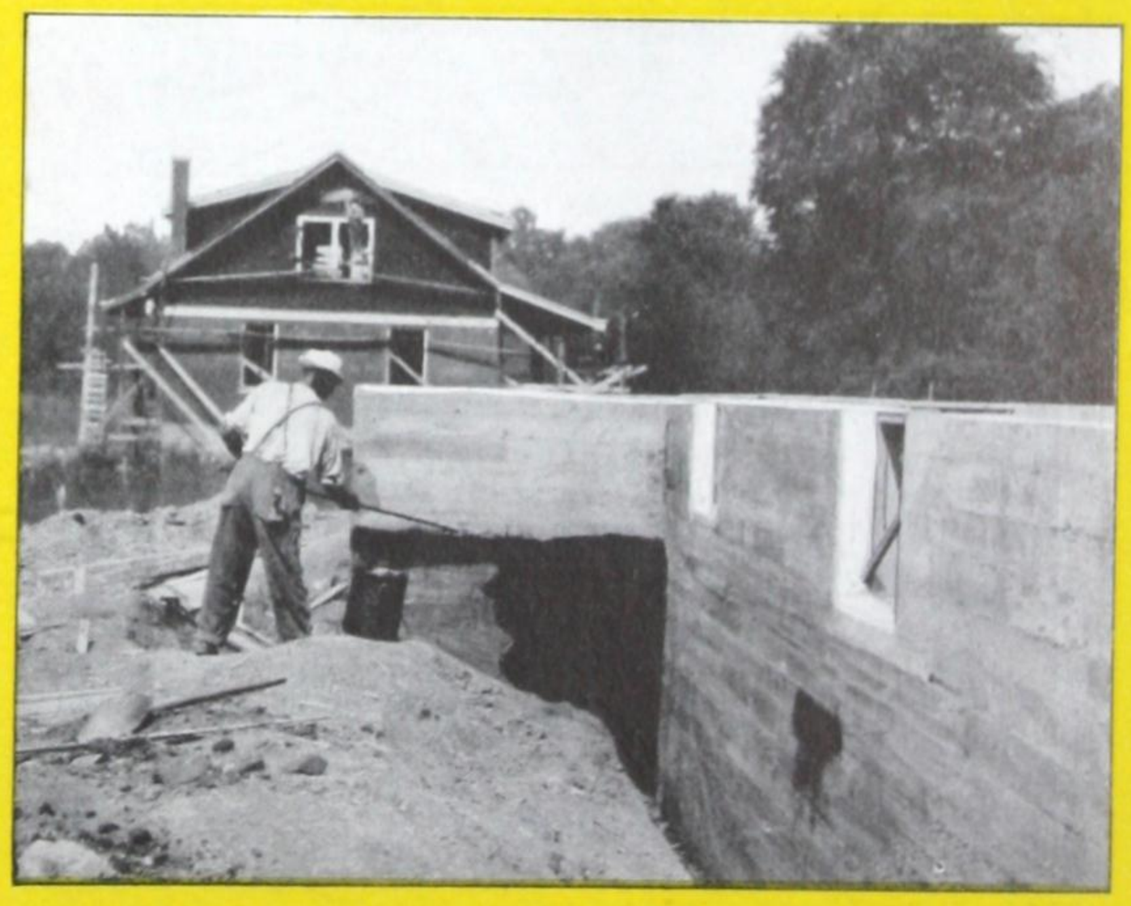
Carey Plastic Waterproofing Compound

This fibrous black cement is trowelled onto the outside of the foundation walls forming a tough adhesive thick layer. Used where building is located in low, heavy, more or less soggy, ground, where greater protection is needed than is given by the liquid Percoproof coating described above. Must be applied to the outside of the basement wall only.

Carey Percoproof Plaster Bond

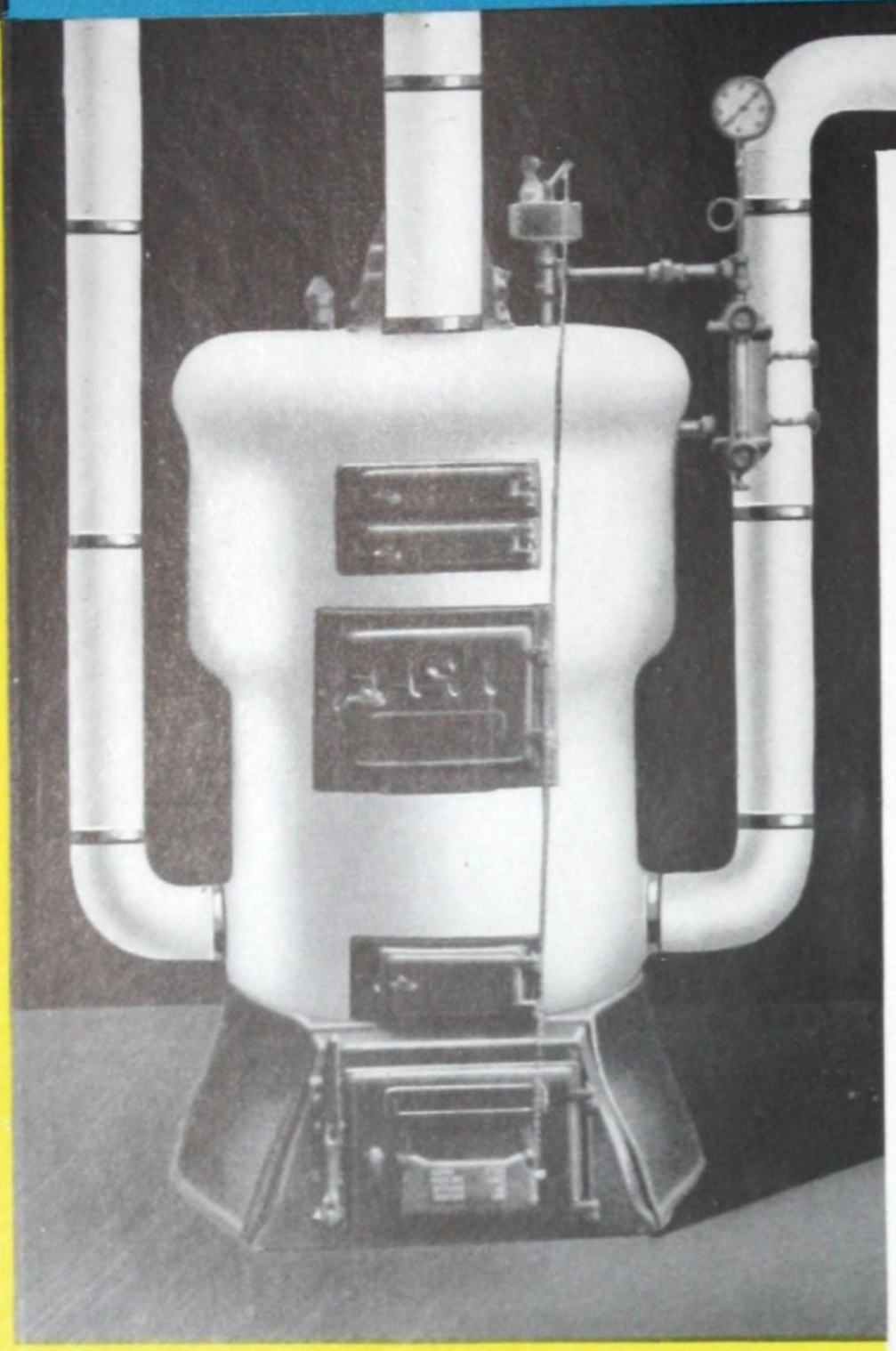
Carey Percoproof Plaster Bond prevents moisture soaking through from the outside of concrete, brick or hollow tile walls and causing ugly stains and cracks in the plaster, possibly even causing the plaster to fall. It is applied directly to the wall and penetrates the pores, thus sealing out the dampness. It leaves the original roughness of the wall so that the plaster bonds firmly and permanently. It is of thin paintlike consistency and comes ready to apply with a brush, without the addition of any solvents.







Carey INSULATION FOR THE HOM



Uncovered steam or hot water pipes are radiators. They give off heat just as readily and as fast per square foot of surface as the radiators in your upstairs rooms. They waste heat in basements, hollow walls and other places where heat is not needed. Carey Pipe and Boiler Covering will prevent nearly all of this heat loss with a resulting saving in fuel that will soon pay for the cost of insulation.

Heating System

Careycel Asbestos Insulation is an exclusive, patented Carey product, especially designed for hot water and steam heating systems. Impartial tests conducted by a leading testing laboratory demonstrated a 30% reduction in heat loss over the air cell type of covering ordinarily used. Put Careycel insulation on all pipes leading from your boiler to your radiator. Cover your boiler with Careycel Asbestos Blocks, and the savings in fuel that will be effected will not only pay for the cost of insulating your heating system, but will continue to pay dividends in fuel saved year after year.

Hot Water Service

When you wait minutes for water from your faucets to get hot you are not only wasting water but also the fuel used to heat it. Cover your hot water heater with a Carey tank jacket. The water will heat quicker and stay hot longer because the heat cannot escape through the jacket walls. The pipes leading from your water heater through the walls to your kitchen and bathroom allow the hot water to cool off. Cover these pipes with Careycel Insulation and keep the water hot right up through the pipes to the faucets. You will save money on your water and gas bills and have plenty of hot water available whenever you want it.

Cold Water Service

Cold water lines usually run parallel to hot water lines through the walls to the bathroom and kitchen. These cold water pipes are warmed by the adjacent hot water pipes and it is usually necessary to run the cold water for some time to get it cool enough to use. Cover your cold water lines with Carey Perfecto pipe covering and keep the water cool right up to the service faucets and save money on your water bill.

INSULATION FOR THE HOME

Continued

Noisy Waste Pipes

Objectionable gurgling noises caused by waste water running through the soil pipes between the partitions can easily be overcome by insulating these soil pipes with Carey Perfecto felt pipe covering. Remember all work on pipes leading to the bathroom and kitchen must be done before the walls are closed and plastered. Make Carey pipe covering a part of your plumbing and heating specifications.

Sweating Pipes

If you, like many home-owners today, are going to make use of your basement as a recreation room, work shop or laundry, be sure to cover your cold water lines with Carey Perfecto, the non-sweat insulation. It will eliminate dripping pipes, which cause no end of inconvenience.

If you plan to have your home air conditioned be sure to get full information on Carey Insulation for air conditioning ducts.

EXPANSION JOINT

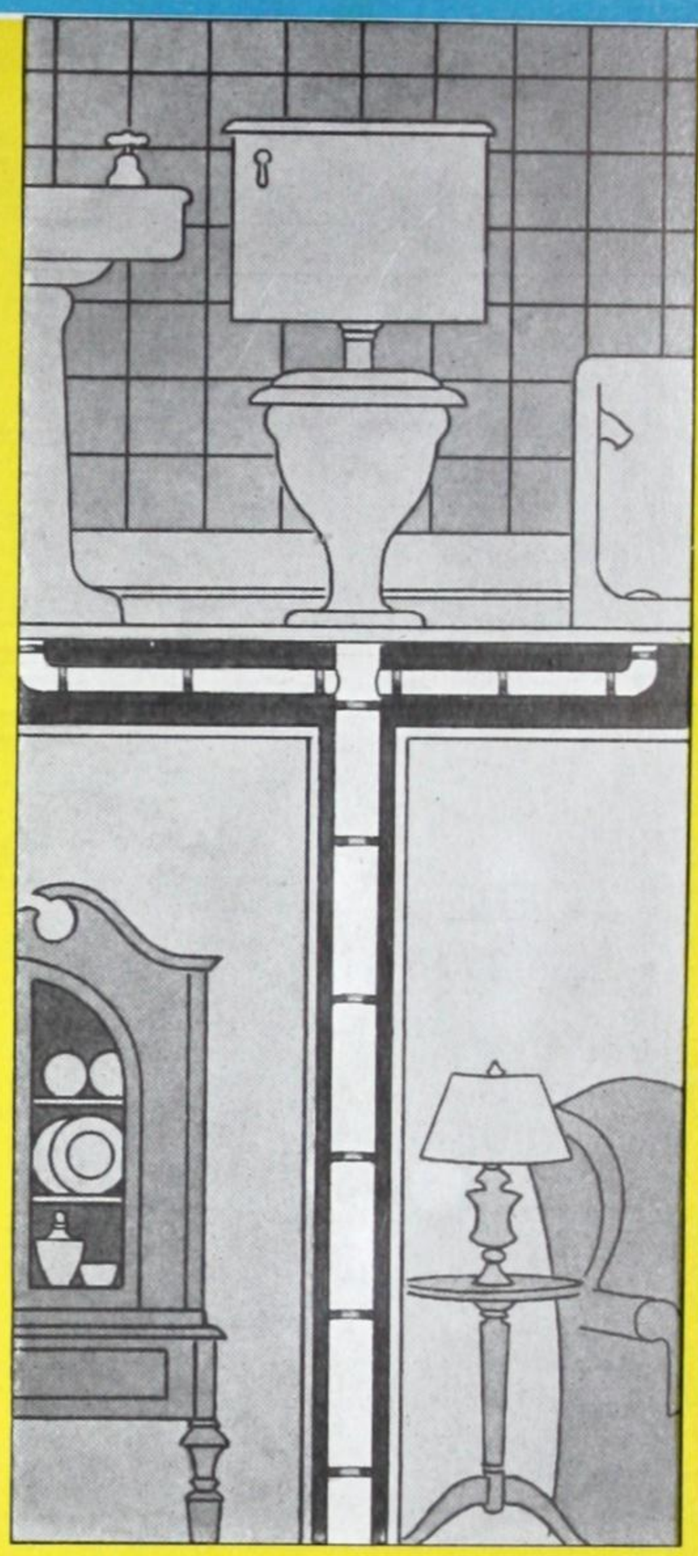
To prevent unsightly cracks in concrete drives, sidewalks, garage floors and aprons, be sure to specify Carey Elastite Expansion Joint to be used in such concrete work around the home.

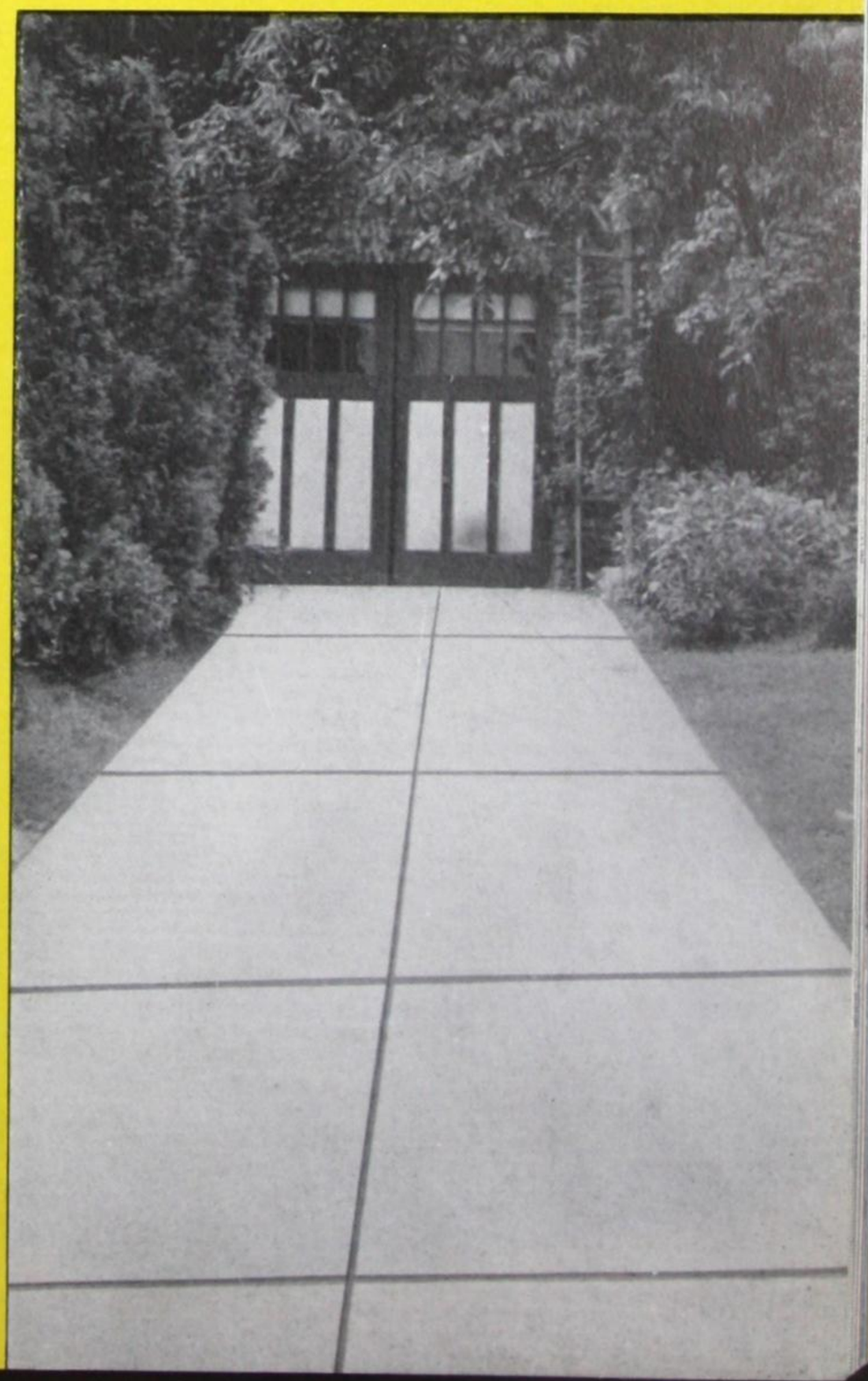
Carey Elastite Expansion Joint is available in two types:

A. Standard Asphalt Joint which consists of two layers of felt between which is interposed an asphaltic composition.

B. A sponge rubber type of joint that is resilient and which, when compressed by the expansion of concrete, will not extrude.

The function of these joint materials is to take up the expansion and contraction to which concrete is subjected on account of the variations in the temperature and climate. The use of Carey Elastite Expansion Joint safeguards your drives, walks, etc., against breakage due to this expansion and contraction.





SALES OFFICES

THE SEAL OF QUALITY · Carey · EST. 1873 · DEPENDABLE PRODUCTS SINCE 1873

The Philip Carey Company

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USE *Trustworthy* Carey MATERIALS IN YOUR HO

THE PHILIP CAREY COMPANY — LOCKLAND, CINCINNATI, O

YOU NEED

CELOTEX





IN YOUR HOME – OF ANY KIND OR COST

YOU NEED CELOTEX

simple and inexpensive
protection against winter
cold and summer heat

★

THE CELOTEX COMPANY • 919 NORTH MICHIGAN AVENUE • CHICAGO

MILLS • NEW ORLEANS

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THE CELOTEX COMPANY

CELOTEX
BRAND
INSULATING CANE BOARD
REG. U. S. PAT. OFF.

what is a COMFORTABLE HOME ?

Comfort is sometimes confused with luxury. But comfort in the home does not call for heavy expenditures nor does it necessarily imply self-indulgence. A comfortable home is a livable home.

Assuming such practical necessities as modern plumbing and an adequate kitchen, the first requisite of comfortable living is an equable and pleasant temperature in all the rooms the year 'round. Whether your home be of the simplest or the most elaborate type, you are entitled to protection against the severities of winter and the excessive heat of summer.

Comfort of this kind is the privilege of all householders, for it can be built into any home easily and at a surprisingly low cost. Without such weather protection there is no genuine home comfort.

Homes without built-in weather protection are hard to heat. Winter cold seeps through the walls. Bitter winds penetrate the interior, creating disturbing and dangerous drafts. Rooms grow chilly and more fuel is thrown into the furnace, but a stuffed firebox is no guarantee of comfort. It is impossible to maintain proper ventilation or to keep an even temperature any length of time. The result is discomfort, fuel waste and endangered health.

In summer the conditions are almost as unsatisfactory. The summer sun beats upon the roof and the torrid heat, finding no effective barrier, invades the upper rooms and raises the temperature to almost unbearable heights.

In such a home there are but few truly comfortable periods the year 'round. It is neither a comfortable, livable home nor an economical one to maintain.

What, then, is the answer?

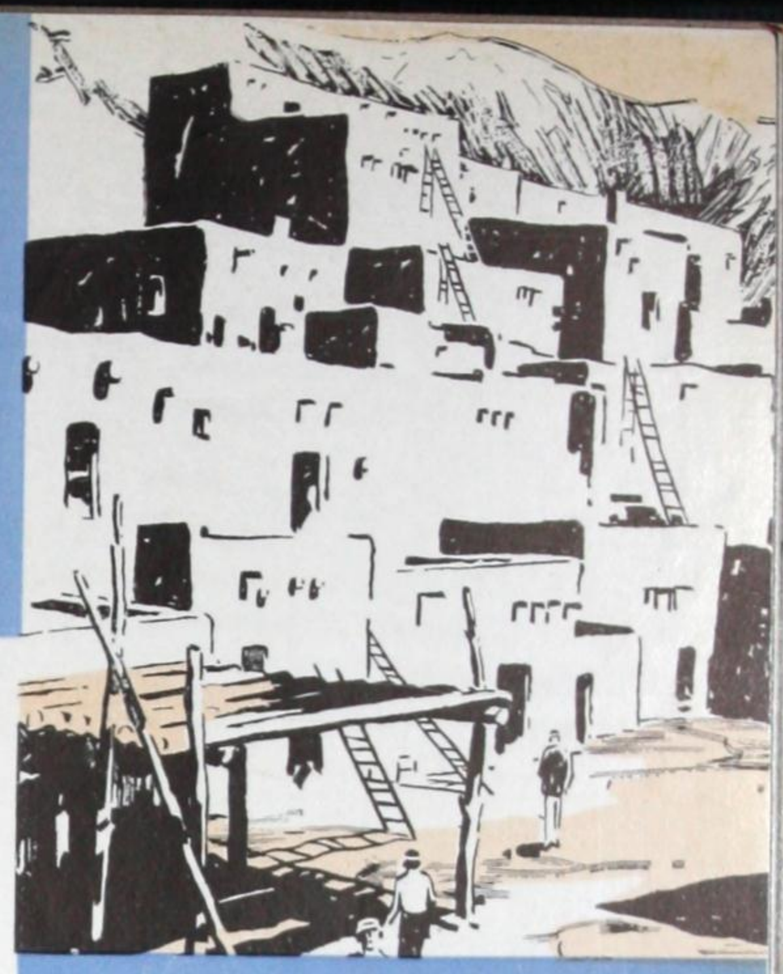
How do we build comfort into a home? What must be included in the specifications to give us all-year weather protection which alone can assure us comfort in all seasons?

The answer is Insulation.

Good insulation, built into the home, provides protection against both cold and heat; reduces the possibility of drafts, improves ventilation, saves fuel and makes living conditions more comfortable whatever the season or weather may be.



what is INSULATION?



ADOBE WALLS SHUT OUT HEAT IN CENTRAL AMERICA.



TROPICAL TRAVELERS WEAR SUN HELMETS FOR INSULATION.



BLOCKS OF PACKED SNOW FULL OF AIR CELLS HOUSE THE ESKIMO.



COLD DOESN'T BOTHER THE POLAR BEAR. HE WEARS HIS INSULATION.

Most people know what the insulation of an electric wire means. In the simple experience of the layman it means some material on the wire to isolate the electric current—to confine it to the wire so that the current will not come in contact with some other object—"shock" the hand that touches it, for example.

Most people know, also, that refrigerators must be insulated; otherwise the cabinet interior will not remain cold, ice will melt, food spoil.

Insulation, then, is a BARRIER. In the case of electricity it is a barrier through which the electric current cannot pass. In the case of the refrigerator, it is a barrier against heat—the higher temperature outside the cabinet which is retarded from penetrating the interior.

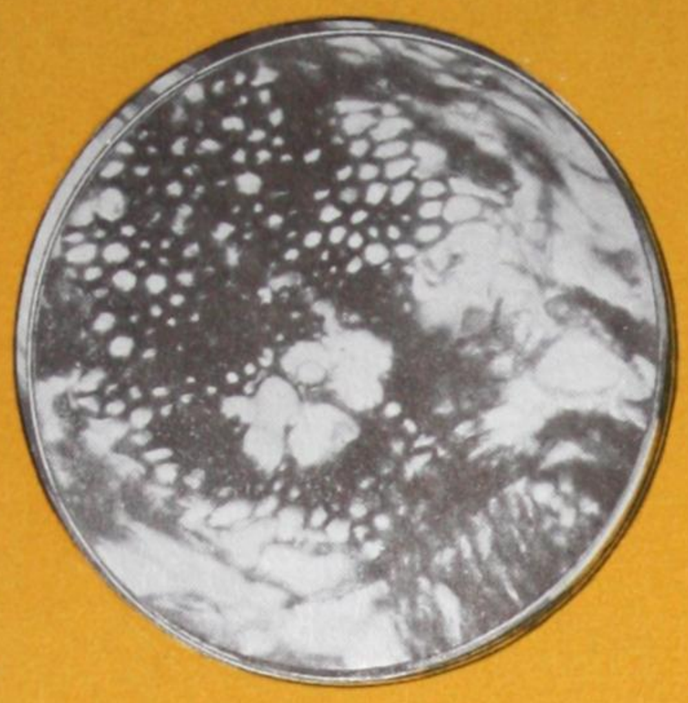
Of late years much has been said about insulating homes and it is now generally agreed that no home can be considered modern or complete—no home can be called comfortable—without adequate insulation.

Home insulation is material that provides a barrier against heat and cold, that makes possible tight, warm, dry buildings. It is a material that is resistant to the passage of heat, that retards it, so that in winter the heat within the room does not escape easily through the walls. If this material is so resistant to the passage of heat that less escapes to the outside world in winter, it naturally follows that summer heat will find it just as difficult to penetrate to the interior of the house during the hot months. Thus your home insulation keeps heat where you want it—inside in winter, outside in summer.

The result is you have weather protection all the year. You can control the temperature of the rooms. You rid the house of drafts. You save money because you do not waste fuel. You conserve health and enjoy greater comfort throughout all the seasons, regardless of the weather.

Fortunately this kind of insulation, this kind of weather protection, this kind of comfort-assurance can be built into any home of any character, easily and at a surprisingly low cost. For there is a preferred insulating building material—a material that does several major jobs in one.

This material is Celotex Insulating Cane Board. It builds. It insulates. It decorates. It should be included in the specifications of your new home or in modernizing the old house if you are to enjoy the largest possible measure of comfort, economy and health.



CELOTEX UNDER MICROSCOPE. AIR CELLS RETARD PASSAGE OF HEAT.



CORNER OF STURDY CELOTEX BOARD MADE OF FELTED CANE FIBRES. THESE BOARDS ARE 4 F
4 TO 12 FEET LONG AND IN THICKNESSES OF ½ INCH, ¾ INCH, AND 1 INCH; AND ALSO IN

what is CELOTEX?

★ What is Celotex and why is it the insulation material you should specify for your home?

Celotex is a staunch building board unlike any other material. It builds; it insulates; it decorates. It is made into broad, strong boards from bagasse, or cane fibre, at the Celotex mills. No other insulating material can give you all the advantages of Celotex.

The cane fibre from which Celotex is manufactured is one of the longest and toughest known. Under the microscope it reveals two unusual characteristics which, together with the method of manufacturing the board, account in large measure for the remarkable properties of Celotex.

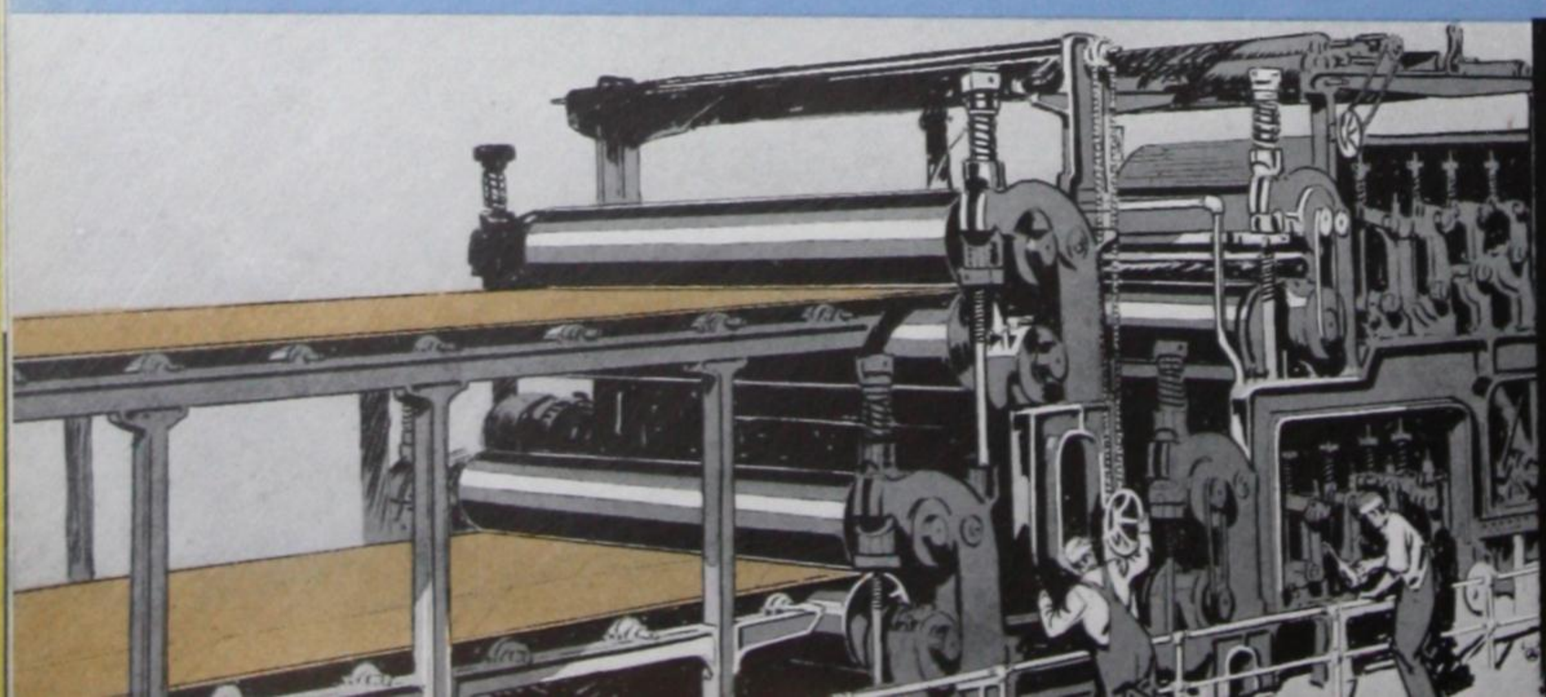
FIRST, each fibre has rough, sawtooth edges which, when the fibres are interlaced, cause them to cling together with amazing tenacity.

SECOND, these fibres contain millions of invisible sealed air cells, one of the most efficient insulating agents known to science.

Numerous tests by nationally known laboratories (U. S. Bureau of Standards, Armour Institute of Technology and others) have established the superior insulating efficiency of Celotex. Its wide use under all climatic conditions by builders, architects and engineers is further evidence of its practical value.

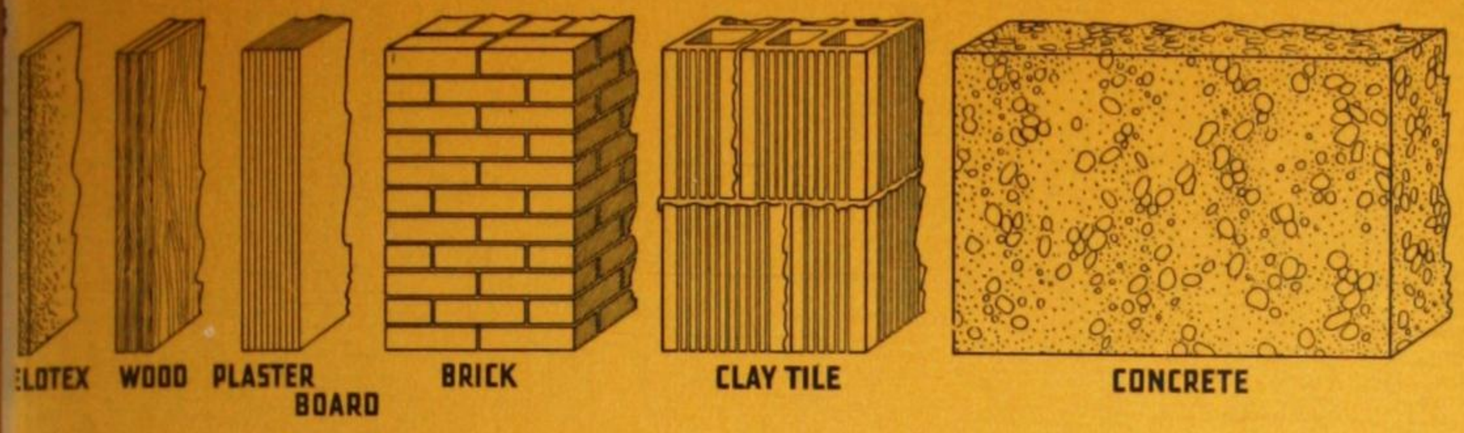
The fibres that go into Celotex are thoroughly sterilized and the product is therefore always clean and sanitary. Felted in the process of manufacture, the cane fibre emerges from the great machines in an immense endless sheet which is sawed in boards of stock sizes. At frequent intervals samples are subjected to tensile strength, waterproofing, weight and other tests, so that high quality is always rigorously maintained.

ONE OF THE GIANT MACHINES USED IN MANUFACTURING CELOTEX.



THE "TURNBUCKLE TEST." THE STRO
CELOTEX SHEATHING RESISTS THE ST





THE PICTURES ABOVE SHOW THE RELATIVE THICKNESS OF VARIOUS MATERIALS REQUIRED TO EQUAL INSULATING VALUE OF CELOTEX.

CELOTEX **advantages**

Celotex fulfills many important uses all at one low cost. If you are building a frame, stucco or brick veneer house, you may use Celotex IN PLACE OF wood boards for sheathing. Or you may use Celotex as a base for plaster IN PLACE OF wood or metal lath or plaster board. Or you may use Celotex as Interior Finish. In all these uses Celotex performs its full duty as INSULATION, at the same time replacing other materials.

Celotex is a practical building material. Although light in weight, it is so sturdy that it actually adds to structural strength. The long, tough bagasse fibres, felted and securely interwoven during the manufacture into boards, endow it with this inherent strength. Celotex is not an "extra" material. It resists surface scuffing, corner breaking and other damage.

Celotex Building Board is a superior insulation highly resistant to the passage of heat. Its thermal conductivity of .33 Btu. means that: 1″ of Celotex is equal to three 1″ wood boards; or nine ½″ layers of plaster board; or a 15″ wall of common brick; or a 16″ clay tile wall; or a 36″ concrete wall.

Celotex has positive sound-deadening qualities of great value.

When used as an interior finish, Celotex with its agreeable buff tone, provides in itself charming decoration without extra aids. At the same time it permits complete freedom in decoration.

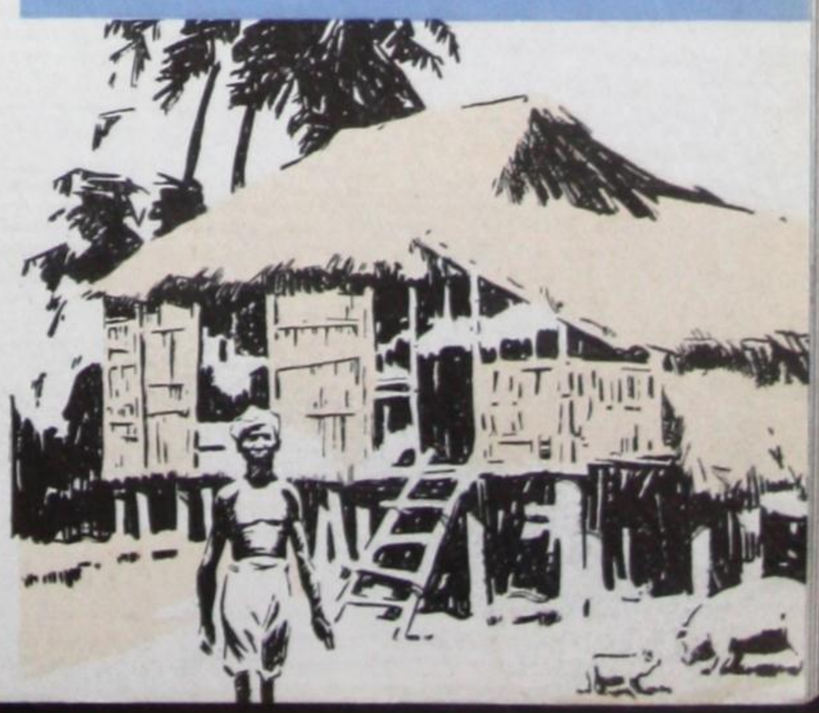
Celotex is an inexpensive material. Frequently $30 worth of Celotex is sufficient to provide an interior finish for a room of genuine charm and often $50 worth is enough to finish off an attic. It must be remembered, too, that when Celotex is used insulation is obtained at little or no cost because Celotex replaces some other non-insulating building material that would otherwise have to be employed.

Celotex is readily obtainable throughout the world. Lumber dealers handle it everywhere. Architects, contractors and realtors are familiar with its uses and recommend it.



THE LONG, TOUGH, RESILIENT FIBRES OF CANE USED IN MAKING CELOTEX.

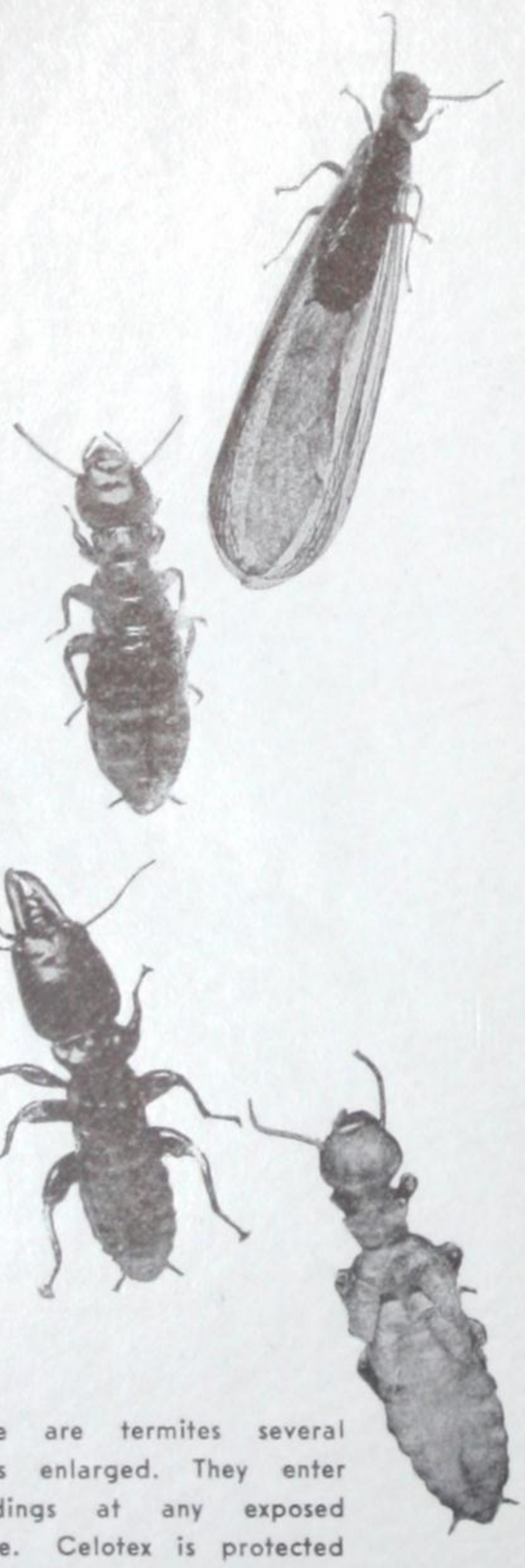
IN THE TROPICS FIBRE THATCHING INSULATES ROOFS FROM THE SUN'S HEAT.



CELOTEX

dry rot proofed

and termite proofed



These are termites several times enlarged. They enter buildings at any exposed place. Celotex is protected from their attacks by exclusive Ferox Process.

One of the commonest agencies of decay in building materials is Dry Rot. Most people are somewhat familiar with its destructive effect. Dry Rot and Fungus Growth are serious evils and the damage they cause runs into "box car" figures.

Another destructive pest, not so widely known and recognized as Dry Rot—at least in temperate zones—is an offensive looking but tiny creature called the Termite, but more frequently, though erroneously, referred to as a White Ant.

Termites (White Ants) are not widely known or recognized as a danger in most parts of the United States, as they are supposed to flourish in tropical or semi-tropical counties. It has been assumed that they need a warm, damp climate. But of late years they have been making their appearance and carrying on their destructive work in nearly every state in the Union. Damage running into millions has been reported in Illinois, in Washington, D .C., and in other sections hitherto assumed to be immune.

Adequate protection against all these pests is therefore much to be desired. Celotex assures it—which is just one more important reason why you should ask for Celotex and be sure it is Celotex you get. For here is the fact to be remembered:

ALL CELOTEX CANE FIBRE PRODUCTS ARE MANUFACTURED UNDER THE FEROX PROCESS (PATENTED) AND THEREFORE EFFECTIVELY RESIST DAMAGE BY FUNGUS GROWTH, DRY ROT AND TERMITES (WHITE ANTS).

The Ferox Process is an integral—not a surface—treatment. Therefore, cutting, sawing and otherwise exposing the inner material of Celotex in no way disturbs the effectiveness of this invaluable protective process.

The Termite Marches On! (TIME, September 3rd, 1934)

"In Greenfield, Mo., termites munched their way through the heavy floor of the county courthouse, continued on to other pastures. Last week when the county clerk made one of his rare visits to the record room, he found most of the record books chewed to small shreds. One fat volume was eaten to the last morsel."



Here are some common types of dry rot due to fungus growths which cause decay and destruction. Celotex is protected from such attacks.

CELOTEX INSULATION

cuts fuel bills

★ Celotex is a positive, calculable economy in the operation of any home. It cuts your fuel bill materially, whether you burn coal, fuel oil or gas. It is actually an investment in fuel saving and will pay the owner a dividend year after year.

Celotex accomplishes this economy because as a superior insulation it reduces heat leakage to a minimum. Tests have shown that there is unnecessary heat loss of from 25 to 35 percent through walls and roofs of homes built with ordinary materials. This does not include heat-leakage through cracks and crevices around windows, doors, etc. It includes only leakage through the solid plaster, brick or wood.

Proof of this heat-leakage is often observable snowy winter days. Heavy blankets of snow will remain on the roof of a vacant, unheated building. The roof over the occupied, heated building, if uninsulated, is clean and free of snow. Escaping heat has melted it.

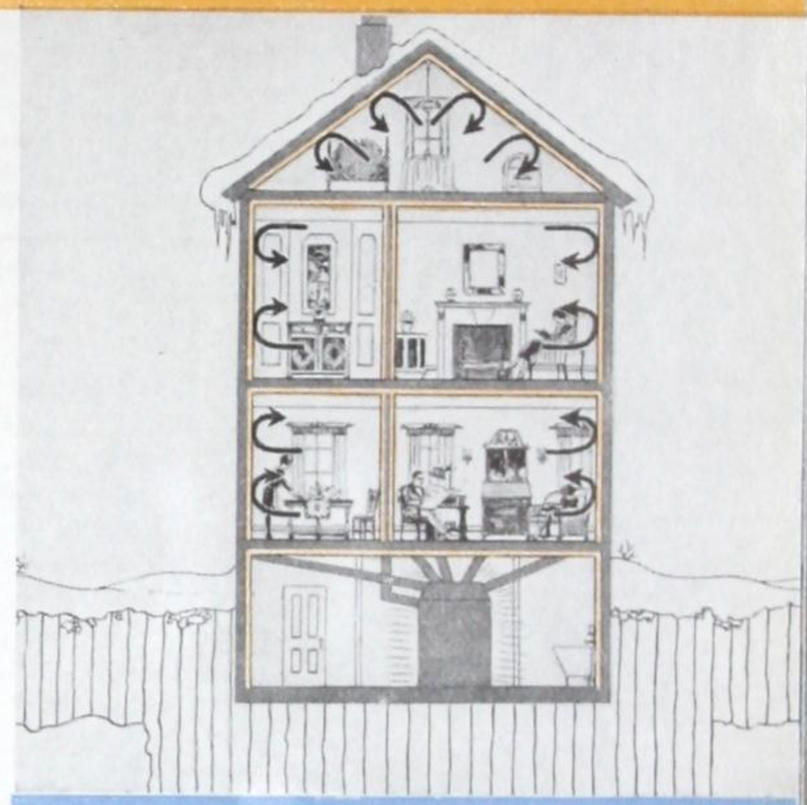
Thick walls do not provide an adequate barrier against escaping heat. Heat insulation is not a matter of thickness of materials, but of KIND of materials. Weather stripping and storm sash are helpful. They keep cold air from sifting into the house, but they cannot, of course, retard the passage of heat through the solid walls. There is a better way to check heat-leakage. That is: WITH INSULATION.

With Celotex in the walls and ceilings or roof of a house you have the desired effective barrier against this loss of costly heat. Not only will fuel bills be measurably lower, but a smaller, less expensive heating plant and smaller radiators may sometimes be employed.

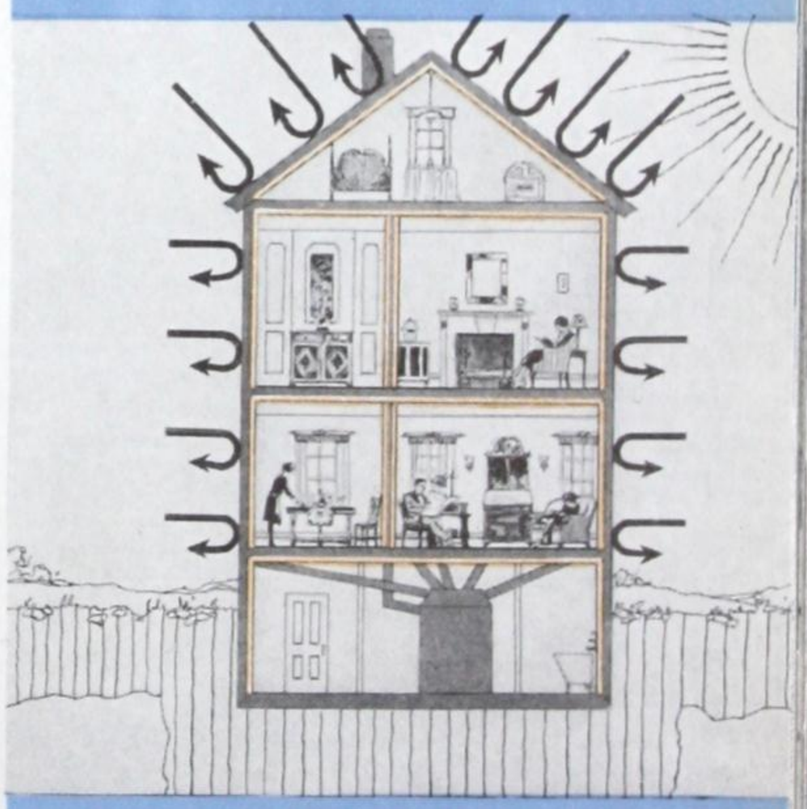
With Celotex in walls and roof it is much easier to maintain livable conditions all the year. Summer heat is kept outside. Without such protection many homes, especially the upper rooms, may be heated to an oven-like temperature by an all day sun and remain hot all night. Stuffy, uncomfortable sleeping quarters are made restful at little cost by Celotex insulation.

Celotex performs all these valuable services at practically no additional initial cost because when used in the construction or modernizing of a house it is not an extra, but replaces other materials.

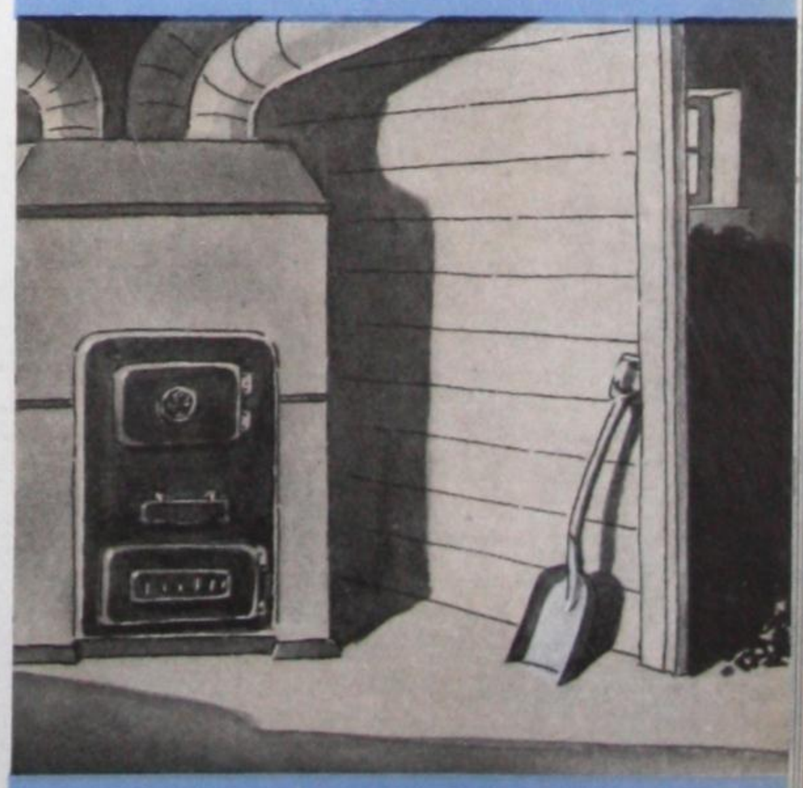
See your Celotex dealer when you insulate, modernize, enlarge or build.



FURNACE HEAT KEPT INSIDE BY CELOTEX IN WALLS AND ROOF.



SUMMER HEAT EXCLUDED BY CELOTEX INSULATED WALLS AND ROOF.



FURNACE HEAT KEPT INSIDE BY CELOTEX INSULATED WALLS AND ROOF.



AN ATTRACTIVE RECEPTION HALL WITH WALLS OF CELOTEX IN ASHLAR STONE EFFECT.



ATTIC NURSERY AND PLAYROOM WITH CEILING OF CELOTEX TILE BOARD AND WALLS OF NATURAL CELOTEX BUILDING BOARD.



THIS CHARMING BEDROOM WITH WALLS AND CEILING OF NATURAL CELOTEX, WITH BEVEL JOINTS, V GROOVES AND STENCILED DESIGN

CELOTEX

an ideal wall finish

★ Celotex is widely used as an interior finish in homes of every class and character. Celotex boards are applied directly to the studding, thus forming the wall surface of the room selected for its use—perhaps the dining room, or games room or bedroom made from otherwise waste attic space.

Architects and decorators favor Celotex for this purpose because they can replace harsh, glaring wall surfaces with the pleasing soft-textured Celotex. The natural buff, neutral tone of this material harmonizes with any scheme of color or decoration. No additional decorative aids are necessary.

An International authority on Interior Decorating, says:

"Celotex provides one of the most perfect wall backgrounds I know. Paintings, tapestries, etchings, color prints, and sculptures are greatly enhanced by a Celotex background that is as neutral as natural linen, neither warm nor cold, neither light nor dark, but with a most cheerful and beautiful tone and texture.

"I have noticed in my home, where I have many walls and ceilings of Celotex, that as time goes on they mellow into a beautiful, rich tone that no paint or stain could ever quite equal."

Celotex as an interior finish offers complete freedom in decoration and every opportunity to express individuality and personal taste. You may paint Celotex any color you desire or any combination of colors. You may stain it or stencil it.

This freedom in decoration extends still further and is not limited to any style or period, from the introduction of the classic motif to the reproduction of the mood and spirit that illustrate extreme modern trends.

Celotex, for example, lends itself beautifully to paneled wall effects. The battens may be made of wood or Celotex. Celotex may also be carved, or grooved, or beveled to attractive patterns and some of the most interesting modern effects are obtained in this manner. Cut stone effects are also easily obtainable by trimming the Celotex into panels of the proper sizes and beveling the edges to produce a "V" groove at each joint.

Walls provide the background of any interior. You will be surprised and delighted with the beauty and charm Celotex walls create and in so using this versatile structural material you will also be enjoying the benefits of superior insulation at no extra cost.

CELOTEX

tile board, finish plank

ornaments

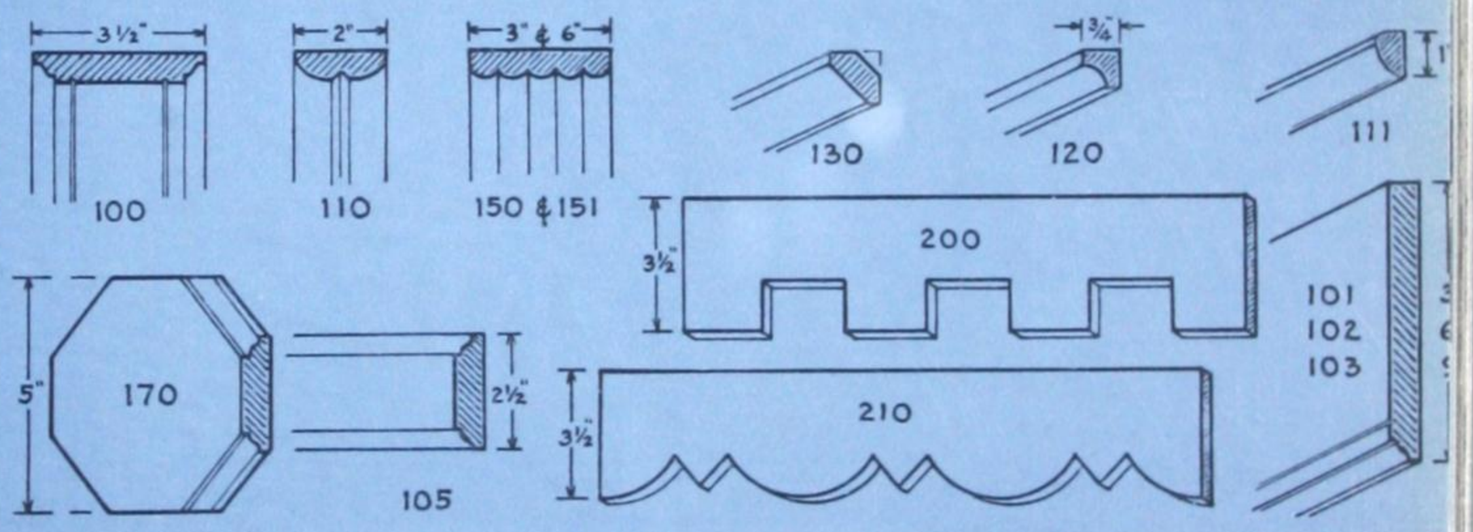
and mouldings

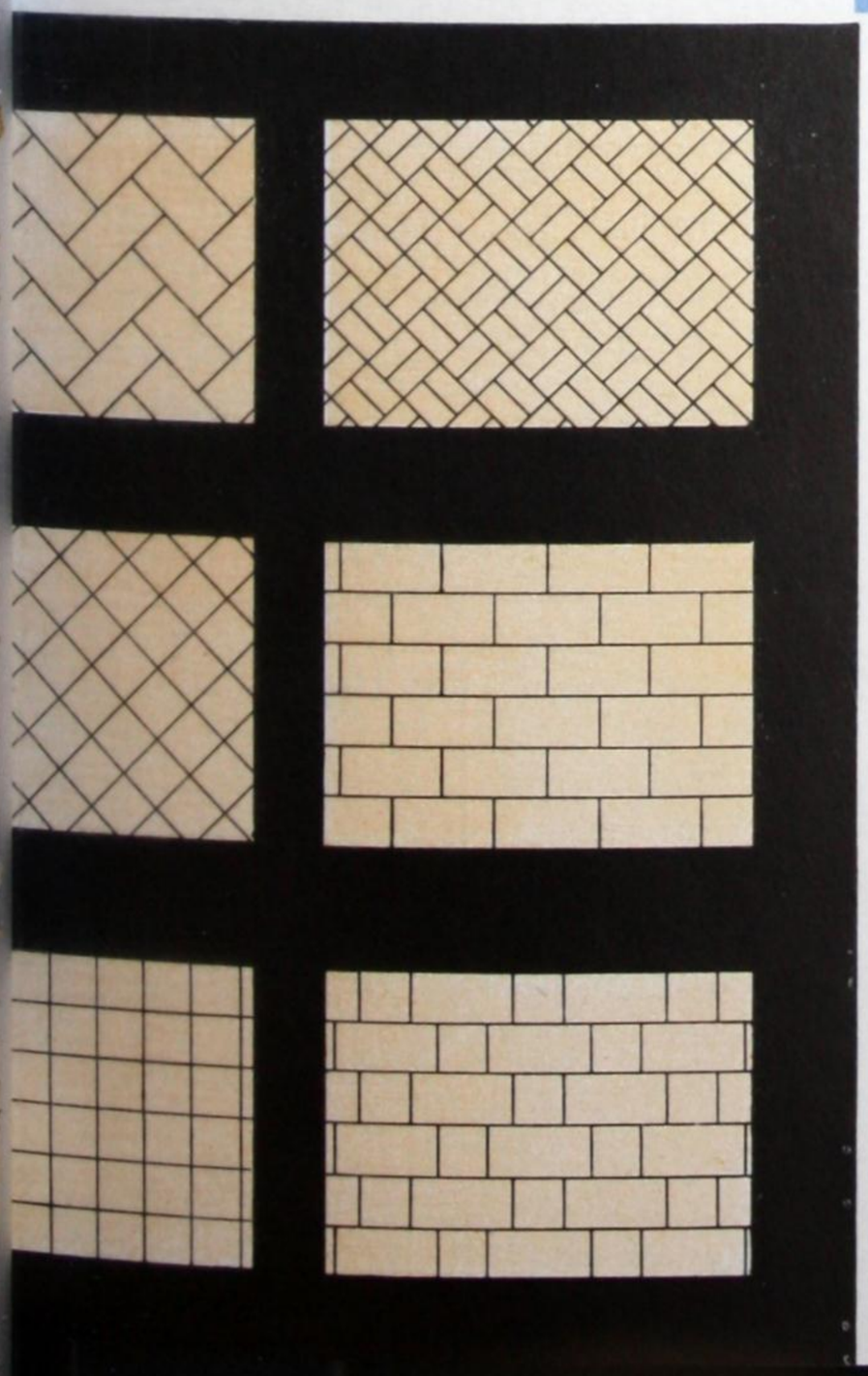


Celotex ornaments, available in a num-
r of well chosen designs, add interest to
eriors of Celotex Tile Board or Celotex
ilding Board. Above to the right are
own two of the popular designs.

Celotex Tile Board is made in a variety
sizes, thicknesses and colors which lend
emselves readily to application in various
chitectural patterns such as Square, Dia-
ond, Herringbone, Basket Weave, Plain
hlar and Combination Ashlar, shown
low.

Celotex Mouldings have an important place in wall and ceiling work, either in new or remodeled homes. They are well adapted for use with Celotex Building Board and Celotex Tile Board to enhance the completed job.

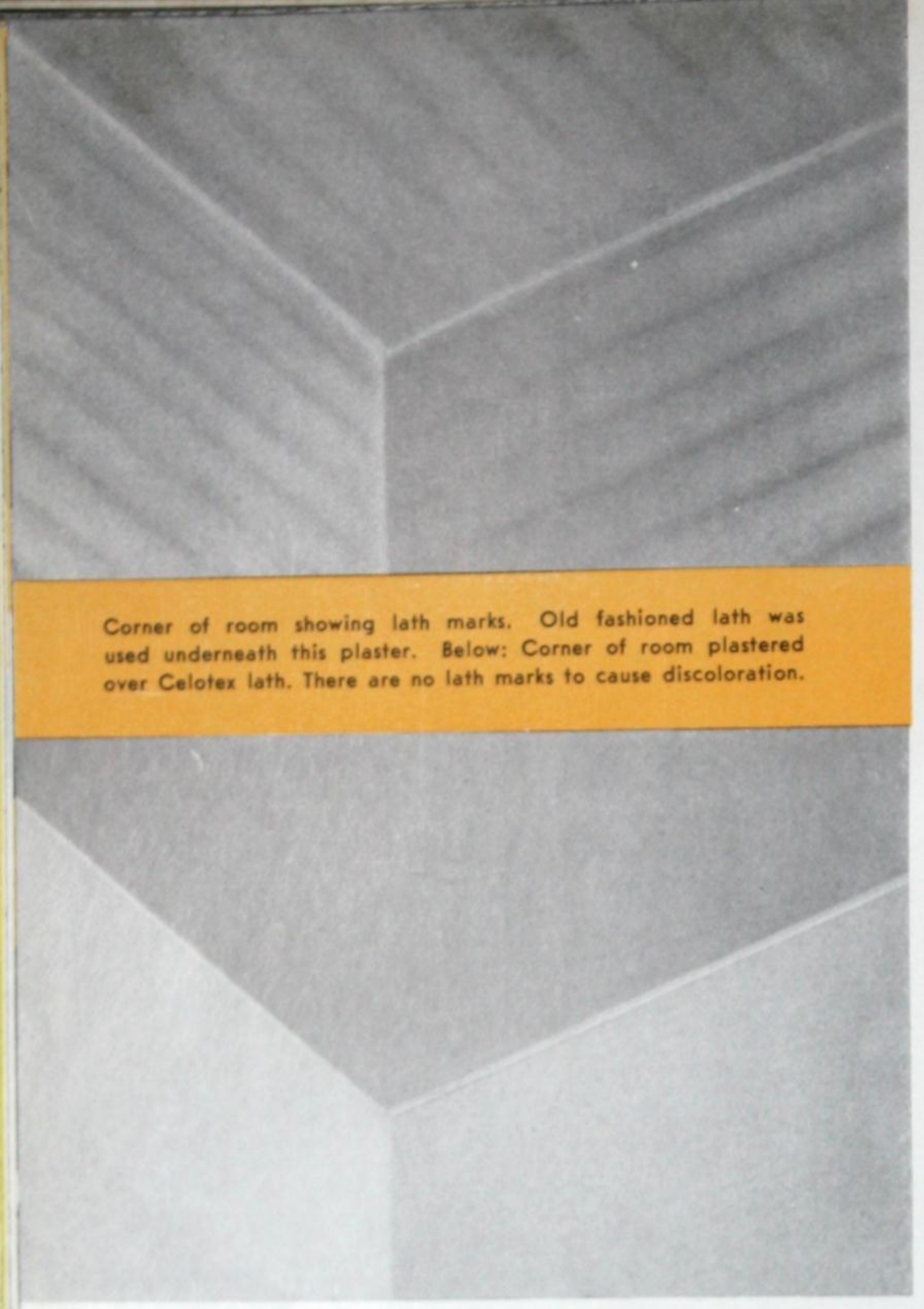




★ Interiors are beautifully finished with Celotex Building Board and Celotex Finish Plank (see front cover) but for those preferring a treatment consisting of small units, Celotex Tile Board with beveled edges, provides interesting designs, easily and quickly installed.

To emphasize design and to relieve plainness of pattern, Celotex is supplied in a great variety of Ornamental Tile and Mouldings which are used extensively for wall and ceiling decoration in combination with Celotex Building Board and Celotex Tile Board.

These ornaments are original with Celotex and have met with popular acclaim from architects, designers and interior decorators. While they are not essential to attractive design, they help round out patterns and lend a finished air to walls and ceilings of Celotex. Ask your lumber dealer for more information, or write direct to The Celotex Company, Chicago, Illinois.



Corner of room showing lath marks. Old fashioned lath was used underneath this plaster. Below: Corner of room plastered over Celotex lath. There are no lath marks to cause discoloration.

CELOTEX
as a base for plaster

★ If any inside walls and ceilings are to be plastered you will want to know all about Celotex Lath, the INSULATING plaster base, that eliminates disfiguring "lath streaks" and reduces the tendency to plaster cracks. Used as lath, Celotex replaces wood or metal lath, provides heat insulation, with consequent fuel saving and increased all-year comfort. It provides ample structural strength and great rigidity. And all this at little or no extra cost.

Celotex Lath presents a surface of strong, tough fibres that become imbedded in the plaster and grip it like thousands of wiry fingers. Plaster bonds permanently to Celotex Lath.

Moreover, a surface covered with Celotex Lath does not present any openings, as between wood lath, through which plaster extends—the cause of lath-marks on the wall or ceiling.

The edges of Celotex Lath are beveled. This patented bevel joint results in the application of an obvious engineering principle. Not only is the joint reinforced with an extra thickness of plaster but the angle of the bevel allows a long line of diagonal reinforcing through the plaster at all joints. In this way reinforcement is given to the most vulnerable part of the wall.

The improvement in quality of a plastered wall, which Celotex Lath gives, is coupled with the extra advantage of insulation. When a lather completes a job with Celotex Lath, he has also installed a job of insulation without extra expense, because he has provided both lath and insulation in one material. The home in which Celotex Lath is used will have no cold, damp walls. It will be remarkably quiet. It will have that priceless comfort that only Celotex gives.

The Celotex Lath joint (patented) specially designed to eliminate plaster cracks and lath marks.

CELOTEX BONDS FIRMLY T
PLASTER TO A DEGREE SUFF
CIENT TO SUPPORT LOADS I
EXCESS OF 800 LBS. PER SQUA
FOOT.

CELOTEX

a superior sheathing

strength and rigidity vital factors in its wide use

★ Celotex provides ALL the essential features required in a sheathing material. It is widely used for this purpose on the outside walls of frame buildings beneath any type of exterior finish. It may be used with standard door and window frames.

Combined in Celotex are these essential qualities for a completely satisfactory sheathing for frame buildings: (1) strength, (2) durability, (3) high insulating efficiency, (4) permanent resistance to decay and protection from damage by destructive pests.

The superior strength and rigidity of Celotex sheathing has been conclusively demonstrated by what has become the world-famous Celotex "tug of war" test. Two panels, usually four feet square, are built by standard framing methods with studs on 16" centers. One is sheathed with ordinary horizontal sheathing, the other with Celotex.

The panels are placed upright and firmly anchored to a base with a space between them. At the top the panels are connected by a sturdy iron rod with a turnbuckle in the center. By this means they are gradually pulled together. In every test the panel sheathed with Celotex has demonstrated its superior strength and rigidity.

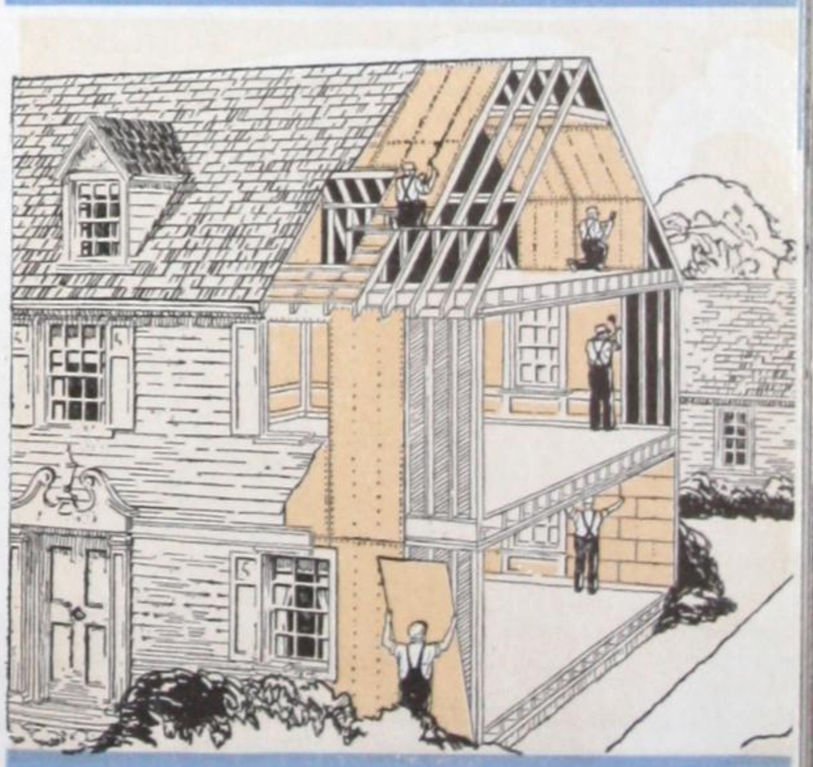
The reason for this is that Celotex provides the necessary reinforcement to resist distortion which ordinary sheathing material lacks. That is why Celotex sheathed buildings are stronger and more permanent and why the distortion caused by wind pressure and settlement is greatly reduced. Celotex sheathing holds the building true and rigid.

When you employ the sturdy Celotex three-quarter inch boards as sheathing you are also providing your home with excellent weather protection. They block off extreme summer heat from the interior and there is a noticeable improvement in heating conditions when zero weather arrives, for Celotex is a superior insulation against heat and cold.

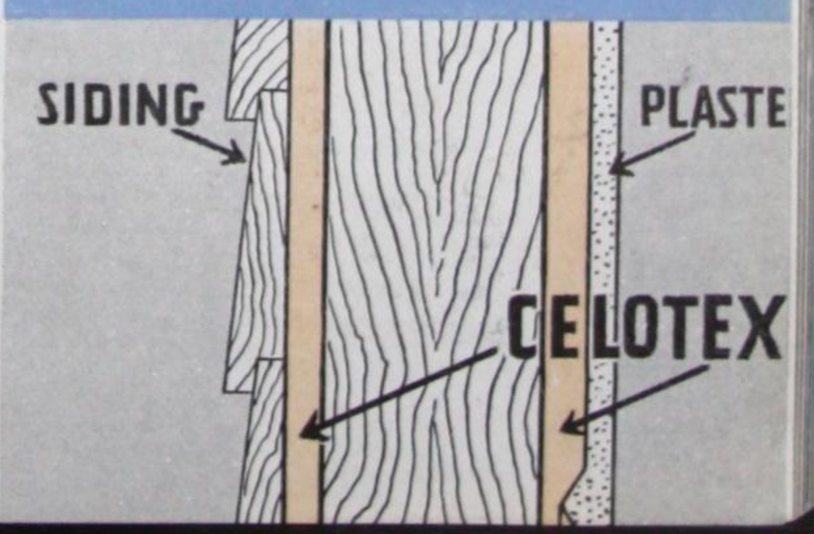
Celotex sheathing is a primary structural requisite, not an "extra." It replaces other materials, including the usual waterproof paper, since Celotex is its own protection against wind and rain and there are no open joints. Celotex sheathed homes are the last word in comfort and will return a fuel-saving dividend every year.

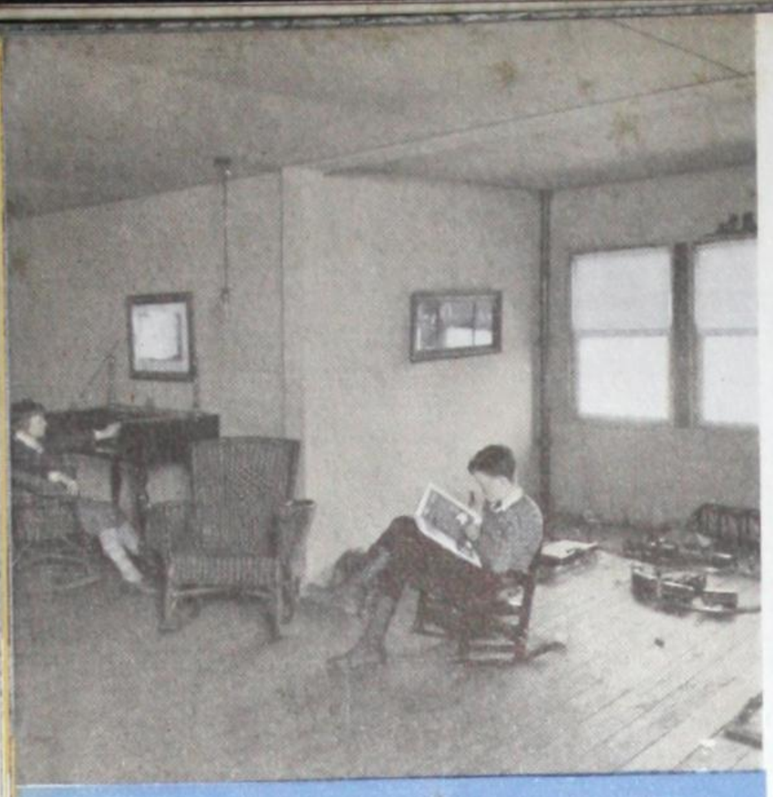


CELOTEX SHEATHING AS USED UNDER BRICK VENEER OR STUCCO EXTERIOR WALLS.

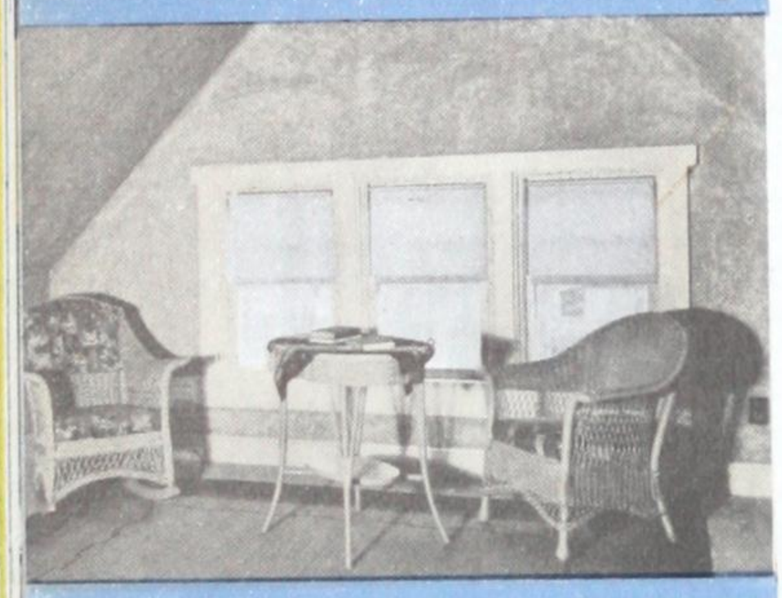


BROAD BOARDS OF CELOTEX SHEATHING STRENGTHEN AND INSULATE FRAME CONSTRUCTION.

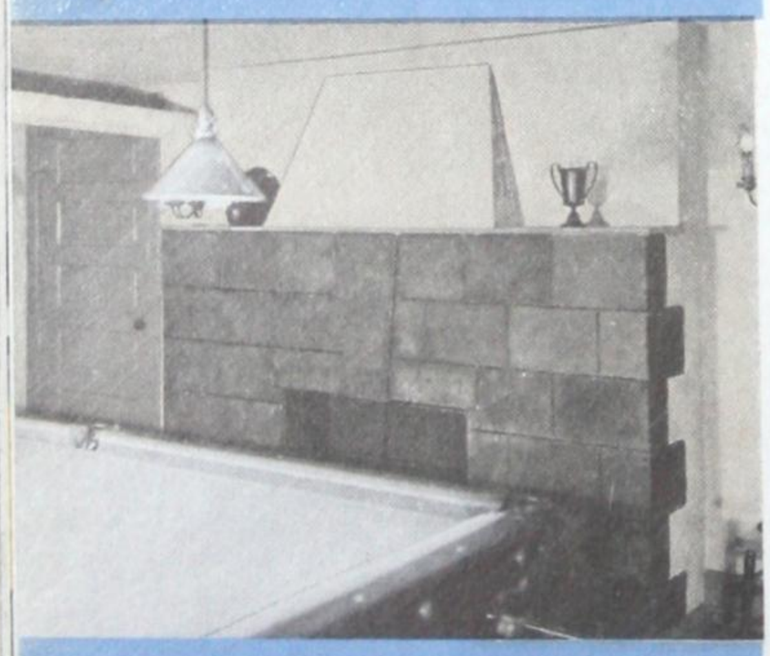




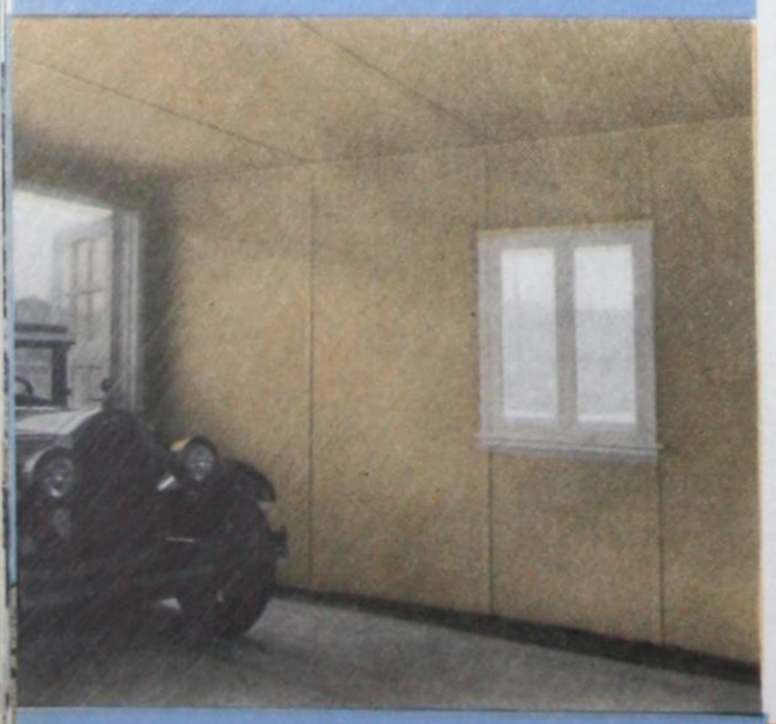
CELOTEX TRANSFORMS THIS ATTIC INTO A COMFORTABLE STUDY AND PLAYROOM.



ANOTHER ATTIC INSULATED AND CONVERTED INTO LIVING QUARTERS—WITH CELOTEX.



FORMERLY WASTE SPACE, THIS BASEMENT IS NOW AN ATTRACTIVE RECREATION ROOM.



CELOTEX INSULATED GARAGE PROTECTS THE CAR FROM WINTER

you need CELOTEX for remodeling

It is not necessary to wait until you are able to finance a new home before you can enjoy the comfort, fuel economy and other advantages of Celotex. You need Celotex in your present home and you can use it to your great profit and satisfaction. It is the ideal material for remodeling, renovating and repairing because it is so easily handled and applied and because, as a building material, it does so many important jobs in one at low cost.

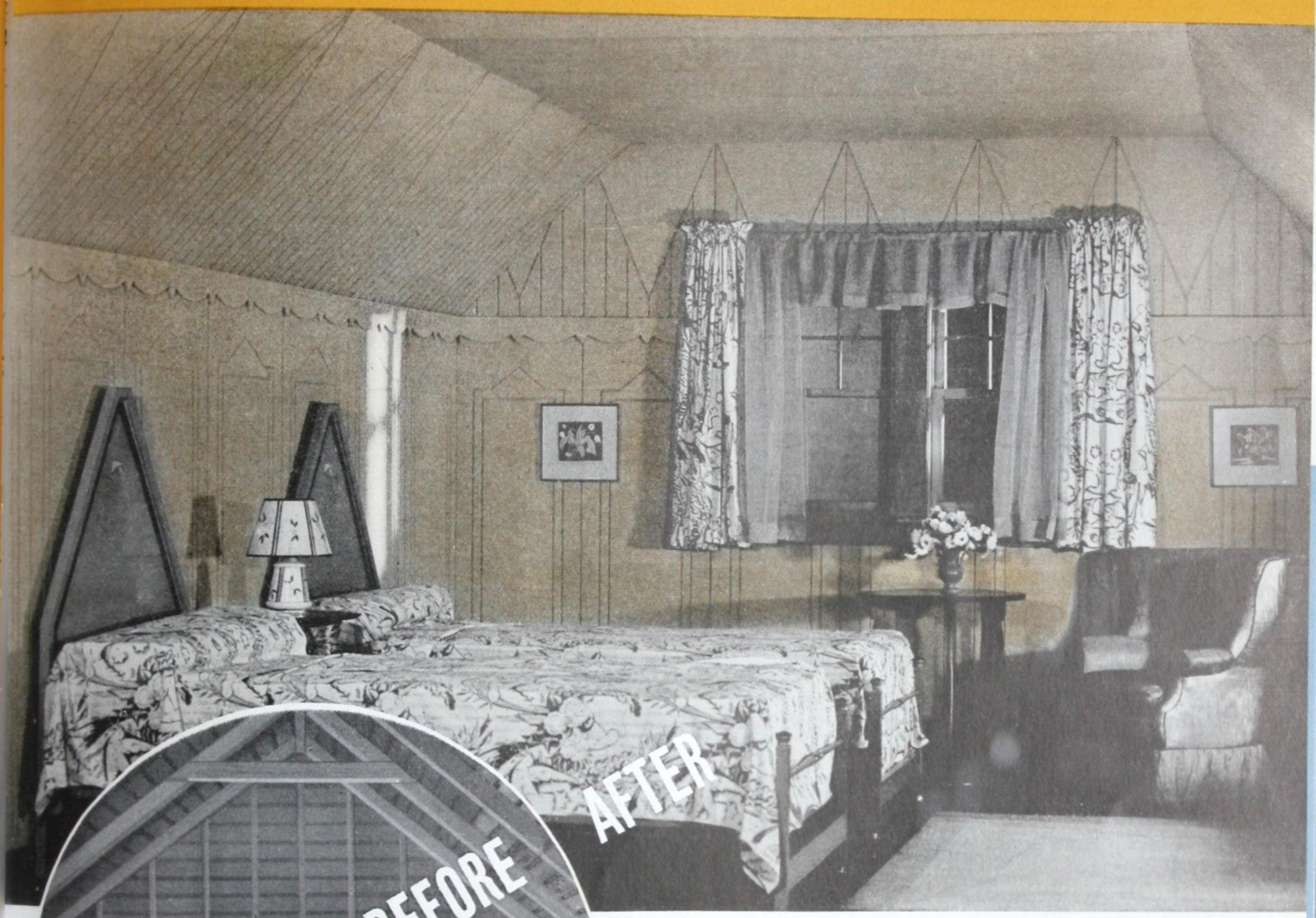
The rooms in your home are doubtless filled with pleasant associations, but nevertheless you would welcome the opportunity to transform them, to modernize them, give them fresh charm and greater comfort through insulation. Celotex will do this for you quickly, easily and you will be delighted with the results. Apply it directly to the plaster or other existent surface. All that is said on Page 8 about Celotex as an Interior Finish is applicable to completed homes as well as to new homes.

If your home is uninsulated you can still secure much of the comfort and fuel saving that Celotex brings by simply lining your attic with it. For there, at the top of the house, is the place where the greatest heat waste occurs in winter, the place where the sun beats down most fiercely in summer.

While the use of Celotex as an attic lining cannot, alone, effect the same results as the use of Celotex throughout the house, it does protect the most vulnerable part of your home against winter's cold and summer's heat. By lining your attic with Celotex you not only secure the advantages of partial protection from the passage of heat, but convert your old attic into a comfortable, livable room.

Another place where you need Celotex protection is the basement. Apply it to the basement walls and ceilings, or over the first-floor joists. It keeps out dampness, prevents dust and furnace dirt from filtering through the floors and marks the end of chilly first-story floors. By keeping out cold and drafts from below you gain much in comfort and—of still greater importance if there are young children in the home—health protection.

Do your remodeling with Celotex. It buildings—insulates—decorates—all at one low cost.



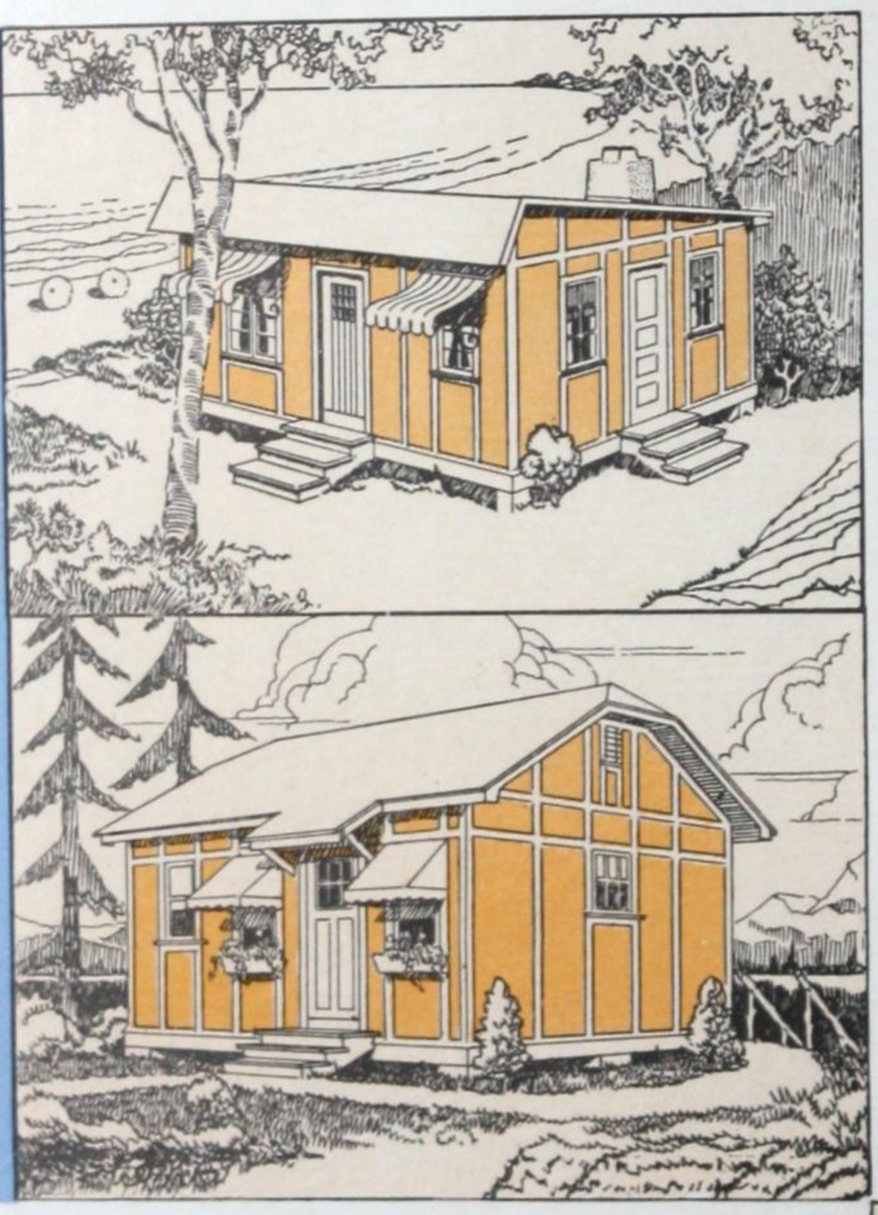
THIS CHARMING BEDROOM WITH WALLS AND CEILING OF NATURAL CELOTEX, WITH BEVEL JOINTS AND V GROOVED DESIGN, WAS CREATED FROM WASTE ATTIC SPACE — AN EXAMPLE OF WHAT CELOTEX HAS MADE POSSIBLE IN THOUSANDS OF HOMES THROUGHOUT THE NATION.

★ One of the most popular and practical uses of Celotex in completed homes is for transforming waste space in basement or attic into useful rooms—bedrooms, games rooms, dens and so on. It is not a big job or an expensive job. Simply nail the light, broad boards right to the studding and rafters. If your attic is already plastered, or finished in any other way, just apply the Celotex directly over it, nailing through to the studs and rafters. If you do not wish to finish off the entire attic you can check the flow of heat by applying Celotex to the attic floor. Lay a wood floor over the Celotex if this unfinished space is to be used for storage. Many householders are using Celotex in building sun rooms, closed-in porches, vestibules, rooms for the storage of fruits, vegetables and other perishable goods; and, particularly, for lining garages. Your lumber dealer will be glad to help you in any one of these profitable improvements.

★ Celotex is a boon to the builder of a vacation home, or to the owner of one already built. It is exactly the material needed to construct cabins or lodges because it meets so precisely the peculiar requirements of structures of this type—sturdy construction that provides first class weather protection—a material light but strong—easy for the unskilled to handle—superior as insulation against dampness, wind, heat and cold. Celotex costs the owner less than many other building materials he might use. It makes his vacation haven cooler under the summer sun and far easier to heat on chilly nights. In fact Celotex has made many a cabin comfortable for year round use.

CELOTEX

vacation homes inexpensive comfortable durable



THE DUNES. This cottage is a favorite where basking in the sun is a joyful pastime. Corner fireplace with outside chimney makes cool nights cheerful.

THE CASCADE. Small and complete, this one room Celotex cabin with kitchen and shower, lends itself to any vacation use.

BIG WOODS LODGE. This four-room cottage has two bedrooms and two screened porches. Cozy fireplace adds charm and comfort. Kitchen has built-in breakfast nook.

THE WILDERNEST. A three-room vacation cottage which is popular among lovers of outdoor life. Celotex walls and ceilings, and the big attractive fireplace make it adaptable to any climate and any season.

The first essentials of a vacation cottage or cabin are convenience, comfort and durability. Celotex assures them all—and many other advantages—at low cost. The broad, strong Celotex boards are simply nailed to the outside of the studding and battened down with wood, metal or Celotex strips. When sized and painted, Celotex has proved its ability to withstand severe weather conditions.

Celotex should also be applied to the under side of the roof rafters where it serves the additional purpose of a ceiling finish. You may leave the inside walls unfinished or secure double protection from heat, cold and moisture, plus an attractive interior finish, by covering them, also, with Celotex.

You may already have a vacation home and would like to make it more comfortable by adding Celotex. Just line the walls, or ceiling, or roof with Celotex. It will give you all-year comfort and a more attractive interior. The Celotex Company has prepared plans of vacation cottages. Some of them are illustrated on this page. Your lumber dealer will be glad to furnish plans.



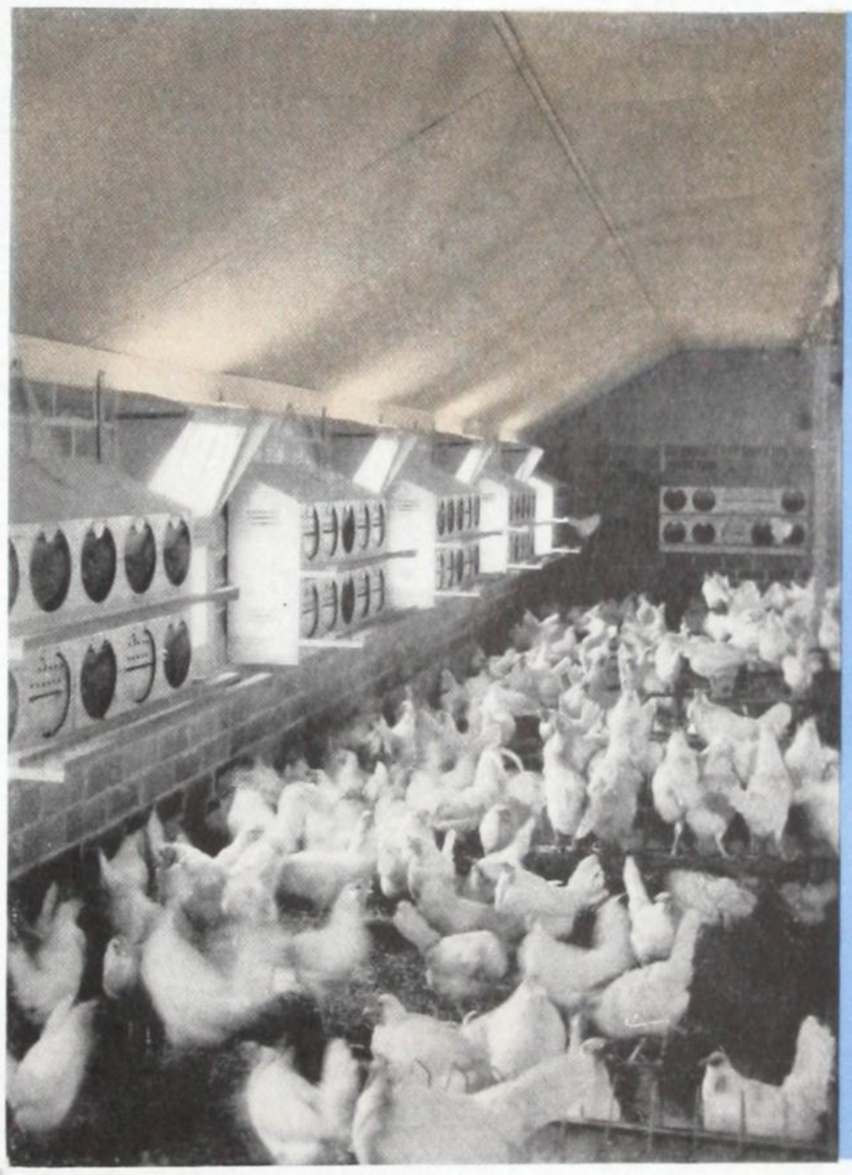
★ Celotex renders valuable service on the farm. There is nothing like a good insulation to make buildings tight, warm and dry. That is precisely what Celotex does. It is not only a sturdy structural material. It is also a superior insulation against heat, cold, dampness and wind. Livestock need this all-year weather protection. Every dairy barn, every milk house, every poultry building, every hog house, should be lined with Celotex. Profitable results are also obtained when Celotex is used to line and insulate storage rooms for vegetables and fruits. The application of Celotex is a simple matter, requiring no special skill. It is inexpensive. Thousands of farmers have found it a profitable investment.

There is not a building on the farm, including the home itself, in which Celotex can not be used with profitable results and to the great satisfaction of the farmer.

Laying hens and young birds need protection from bitter cold and scorching sun just as humans do.

Dairy barns insulated with Celotex provide improved conditions for productive herds.

The well known Celotex Cylinder Brooder House. Poultrymen find it efficient in operation and low in cost.



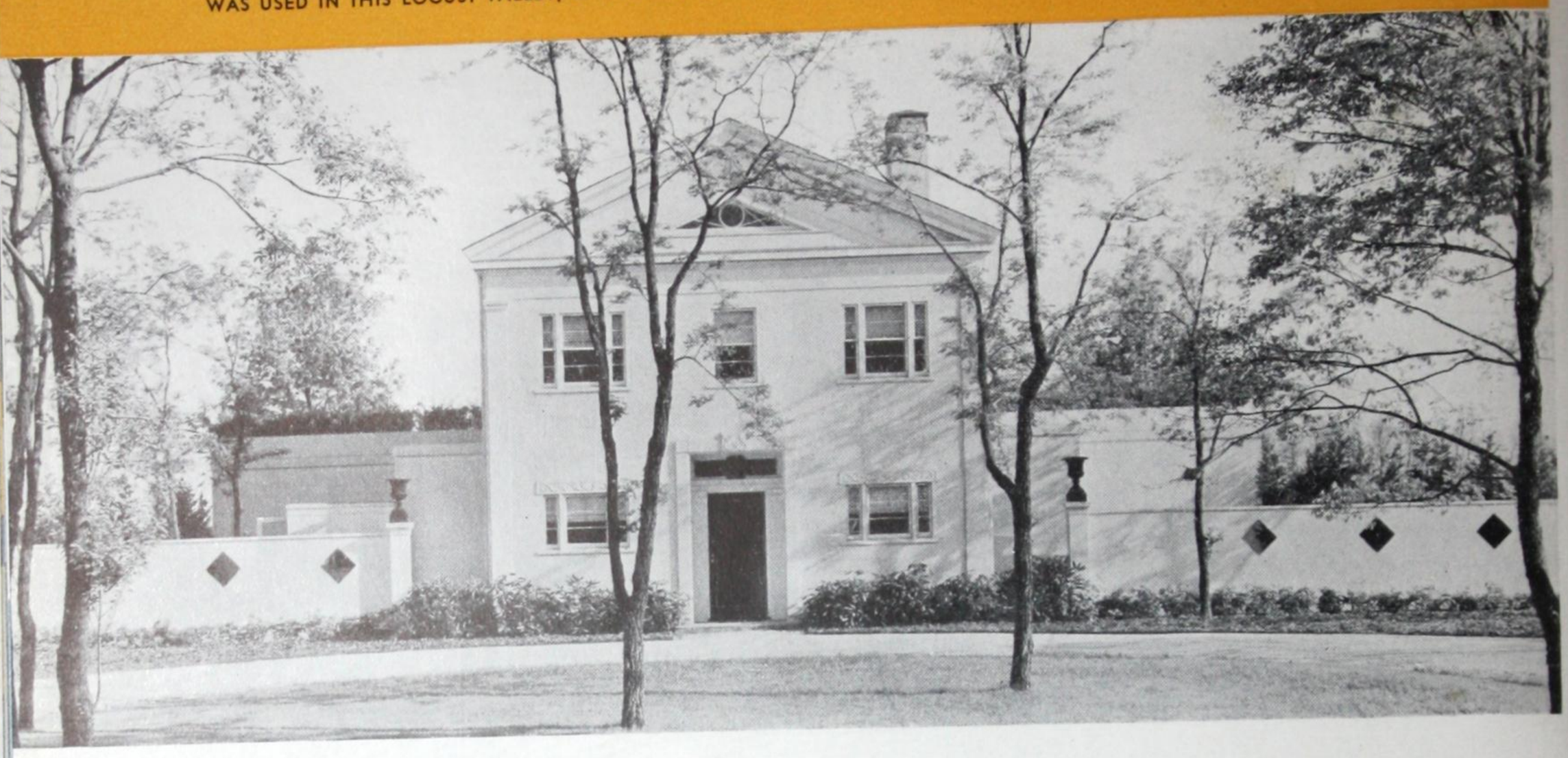
CELOTEX

farm buildings give live stock and poultry all-year weather protection



What is needed in all the buildings that house livestock and poultry is all-year, built-in weather protection and that is what Celotex assures. When dairy barns are lined with Celotex it is possible to control temperature and maintain good ventilation. Barns are made tight and dry, warmer in winter and cooler in summer. When milk houses and cooling tanks are built with Celotex and according to Celotex plans, milk can be kept at the proper temperature to maintain its quality. When brooder houses and laying houses are protected with Celotex the improved condition of chicks and layers and the better results obtained make the slight outlay for Celotex a more than profitable investment. Celotex farm specialists have prepared plans for farm buildings of every type. Ask your lumber dealer to show you the Celotex Farm Plan Service.

FIRST PRIZE, CLASS I.—DESIGNED BY HARVEY STEVENSON AND EASTMAN STUDDS, NEW YORK. CELOTEX WAS USED IN THIS LOCUST VALLEY, L. I. HOME AS A SHEATHING AND ON THE WALLS FOR INSULATION.



CELOTEX **used in all first prize winners**

SUCCESSFUL ENTRIES IN SMALL HOUSE COMPETITION INSULATED WITH THIS MODERN BUILDING MATERIAL



FIRST PRIZE, CLASS III.—CELOTEX INSULATES THIS WEST LOS ANGELES, CALIF. HOME, DESIGNED BY RICHARD J. NEUTRA, LOS ANGELES.

FIRST PRIZE, CLASS II.—CELOTEX IS USED FOR INSULATION IN THIS ALTADENA, CALIF. HOME DESIGNED BY H. ROY KELLEY, LOS ANGELES.



six houses awarded honorable mention also used CELOTEX

Celotex Insulating Cane Board scored a sweeping victory in the seventh annual Small House Competition conducted by House Beautiful Magazine.

When the distinguished judges, including three members of the American Institute of Architects, had selected the winners from the hundreds of designs submitted, this very significant fact was revealed:

Celotex was an important material in the houses winning first prize in each of the three classifications; it was also used in the construction of six houses awarded honorable mention.

These reputable architects used Celotex because it is a versatile and economical building material: It INSULATES, keeping a house warmer in winter and cooler in summer; it is light but sturdy, adding structural strength; as a wall finish, it not only insulates the room, but decorates it.

WE ARE CO-OPERATING
BETTER • HOUSING • PROGRAM

YOU NEED

CELOTEX

BRAND

INSULATING CANE BOARD

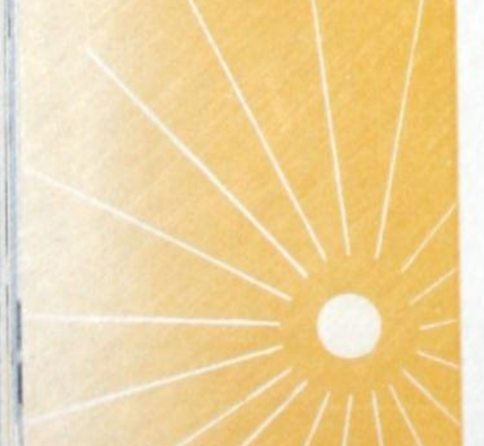
REG. U. S. PAT. OFF.

BUILDS—INSULATES—DECORATES

There is a Celotex Dealer in or near your community, ready to serve you—ask him to show you the advantages of using Celotex.

There are Celotex Sales Distributors throughout the world.

"The Sun Never Sets on Celotex"



NRA
U.S.
CODE



CHASE

BRASS & COPPER

LIGHTING FIXTURES & BUILDING PRODUCTS

For PERMANENCE AND BEAUTY *in the home*

C O N T E N T S



Chase Lighting Fixtures . . . . . Pages 3 to 23

Chase lighting fixtures and lamps include sconces, brackets, lanterns, ceiling fixtures, table and floor lamps for every style of house. Chase fixtures are made of brass, correctly designed and styled in seven distinctive periods, with finishes that are traditionally correct. Although equal in finish, materials and workmanship to custom-made lighting fixtures, Chase fixtures are priced from one-third to one-half less.

Chase Lighting Fixtures are sold by authorized Chase Fixture Dealers on time-payment plans. If you do not know the dealer in your vicinity write to us for his address. Chase Lamps are sold by leading department stores and gift shops. Literature illustrating and describing Chase Lamps, made to harmonize with Chase Lighting Fixtures, is available upon request.

Chase Brass and Copper Pipe . . . . . Pages 25 and 26

Water pipes are hidden behind expensively finished walls. Be careful of the kind of pipe you install. The cost of rustable pipe is almost as much as for brass or copper pipe that will not rust. Chase also makes flexible copper water pipe that is used especially for replacement work and underground service lines from the street to the house. Be sure your plumber uses Chase brass or copper plumbing.

Chase Copper Roofing Products . . . . . Page 27

Chase copper gutters, downspouts and flashings are all stamped with the Chase name and trade-mark which guarantees 99.9% pure copper. Insist on your contractor using Chase Copper Roofing Products.

Chase Bronze Screen Cloth . . . . . Page 27

Use Chase Bronze for window and door screens and for screened-in porches. It will not rust and never needs painting for protection or appearance. Your contractor can easily get it for you.

If you have any difficulty in getting your building contractor, electrical contractor or plumber to furnish you with Chase building products, please write direct to Chase Brass & Copper Co., Waterbury, Conn.



EARLY ENGLISH

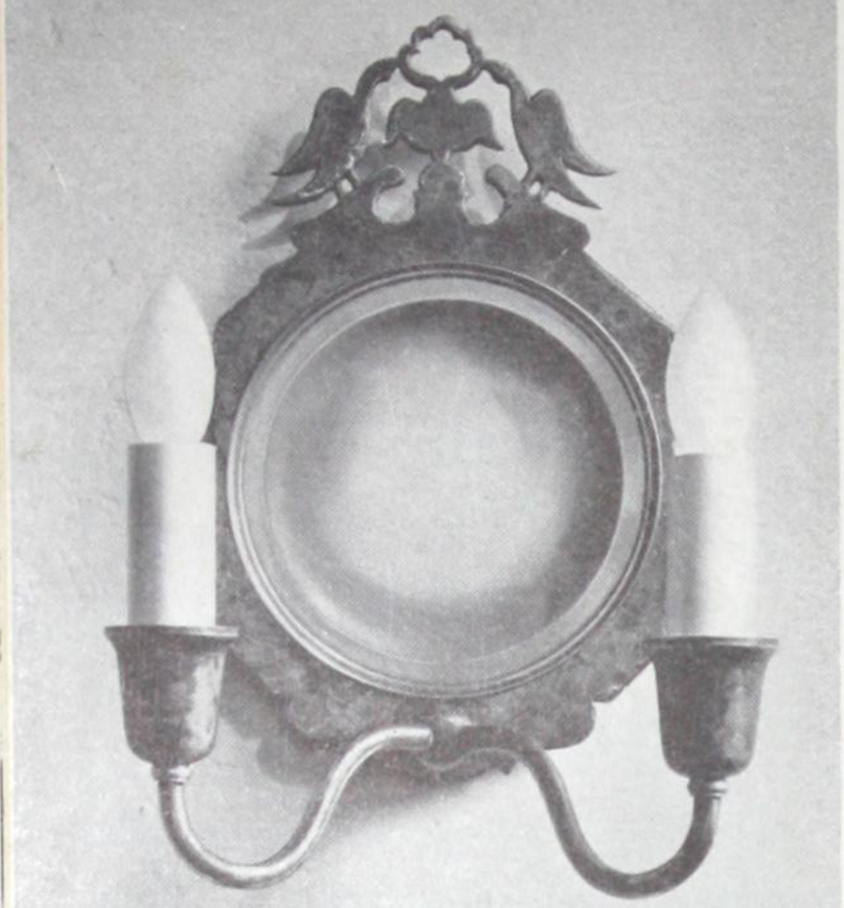


If your home is English in character and your furnishings follow the Tudor or Jacobean styles, you may be sure in selecting Chase Fixtures that they are thoroughly representative of these periods and will harmonize beautifully with your decorations.

The designs of these fixtures are taken from that period in English history which began with the accession of James I in 1603 and ended in 1688 with the reign of James II.

Since the early English metalworkers created most frequently in iron, Chase presents its reproductions finished in half polished iron, in black iron — also in English bronze. These authentic finishes are applied to lasting Chase brass, the basic metal of all Chase Fixtures. Since brass will not rust, or deteriorate in finish or form, Chase Fixtures are far superior to the ordinary English reproductions which are usually made of iron.

Since the work of early metal craftsmen in European countries was quite similar, many of the wall brackets and ceiling fixtures in this group may be used in either Early American, Dutch Colonial, Spanish or Italian type houses.



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SUSSEX

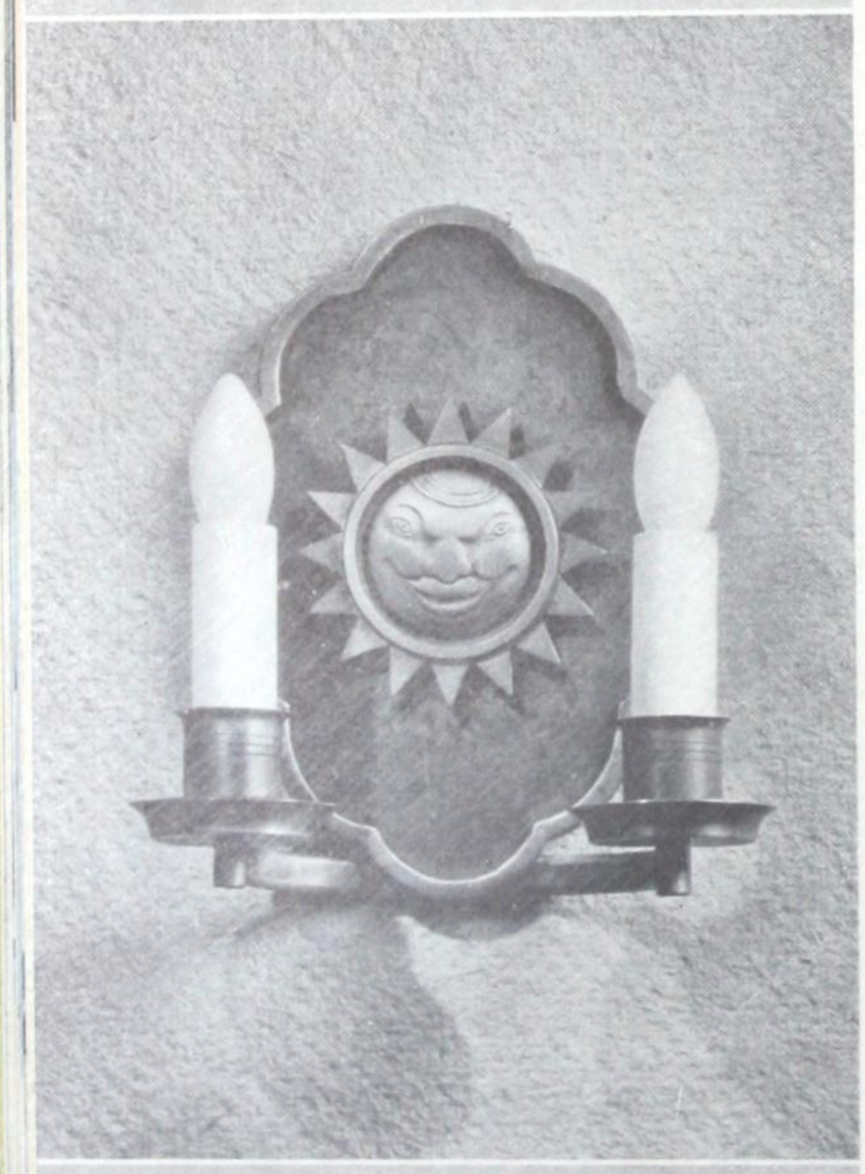
Strongly fashioned of Chase brass, this striking English lighting fixture is finished in half polished iron with the reflector-like center piece in English Bronze. Height 13½″, Width 9″, Projection 5″, $13.50.

At Right

HATHAWAY

Made with an Elizabethan brass sun, symbol of light, silhouetted against a center plate finished in English Bronze. The border, candle arms and cups are half polished iron. Height 9½″, Width 9″, Projection 5″, $13.50.





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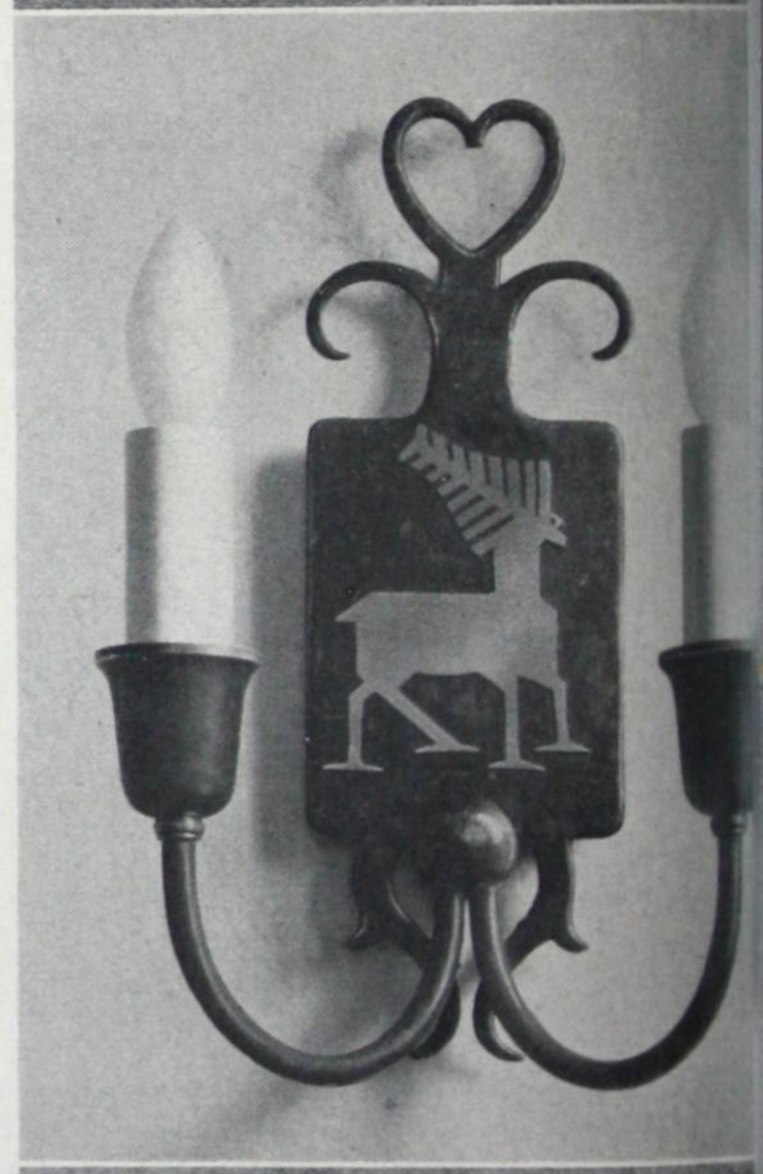
RISING SUN

An authentically designed Early English Fixture. The sun decoration, scalloped edge and candle arms are finished in English Bronze; the inside of black plate in half polished iron. Height 11″, Width 7½″, Projection 5″, $12.00.

At Right

LANCASTER

Typical of the 17th Century craftsmanship, it comes in either half polished iron or black iron finish and the primitively drawn deer, in antique brass. Height 13″, Width 9″, Projection 5″, $10.00.





At Left

HAMPTON

Authentic Jacobean design with its candle arms, cups and top tracery finished in half polished iron, with the center and lower body in English Bronze. Height 13″, Width 10″, Projection 4″, $12.00.

At Right

CLARENDON

Excellent for any early period home, finished in half polished iron or black iron. It has a pleasing silhouette, etched design. Height 16⅜″, Width 10¾″, Projection 5″, $10.00.





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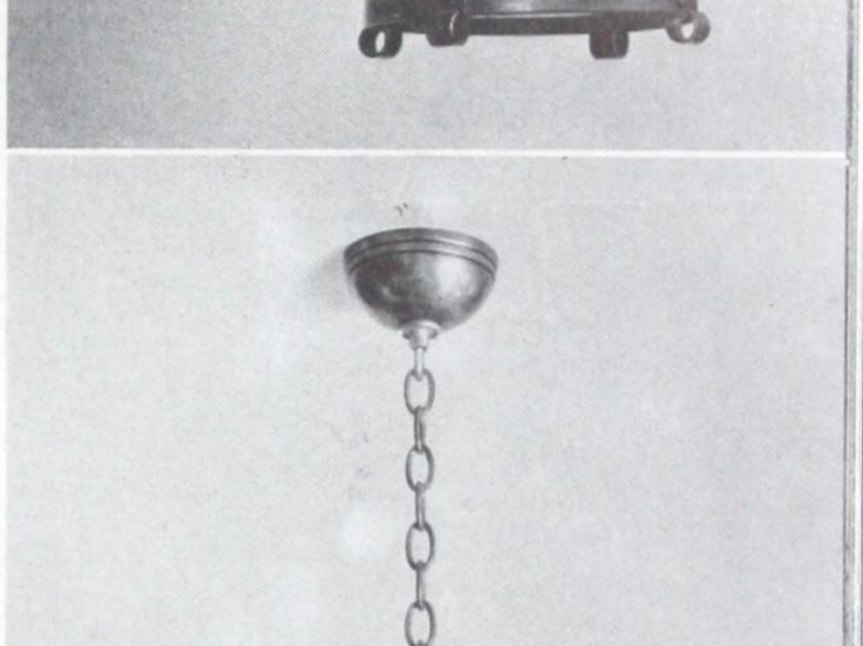
LONDON TOWER

Finished in half polished iron, also in black iron. It has an open bottom, furnished with a rough frosted glass cylinder. Height 14⅛", Width 7⅛". Half polished iron $20.00. Black iron $18.00.

At Right

HADDON HALL

Appropriate for either Early American or English type homes. Finished in black iron or half polished iron. The glass cylinder is frosted. Height 14¾", Width 7". Half polished iron $18.50. Black iron $17.50.





At Left

HADDON HALL

Simplicity is the keynote of this sturdy English lantern, a duplicate of the Haddon Hall Bracket Lantern except for the chain hanger. Length over-all 45". Half polished iron $15.50. Black iron $14.00.

At Right

LONDON TOWER

A duplicate of the London Tower Bracket Lantern except for the chain hanger. Made of Chase brass it is impervious to the weather. Length over-all 45". Half polished iron $16.50. Black iron $15.00.





At Left

SOMERSET

Perfectly suited to English or Colonial homes. Black iron or half polished iron finish. Height over-all 45". Height of fixture, 14¾", Spread 23". Half polished iron $30.00. Black iron $27.00.

At Right

CROMWELL

Made of brass, authentically finished in half polished iron, except the large and small balls in the center which are English Bronze. Height over-all 45". Height of fixture 18½", Spread 18", $28.00.



EARLY AMERICAN

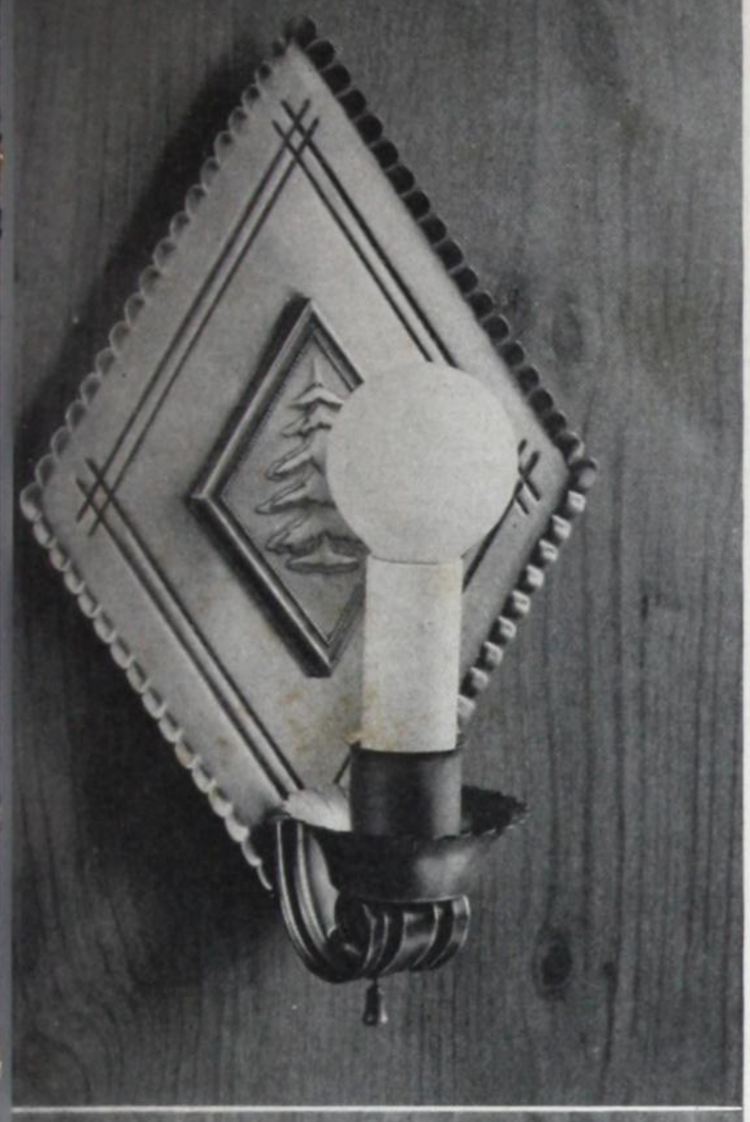
Faithfully duplicating the native beauty of the sconces, lanterns and chandeliers produced by the early Colonists, Chase Early American Fixtures range from the primitive sconces of the early Pilgrim days to the more pretentious fixtures that were seen in later Colonial times.

All are authentically Early American and you will quickly note that their quaint designs and honest workmanship are thoroughly characteristic of that period.

Since nearly all of the original sconces and ceiling fixtures were made of tin, many these Chase reproductions are finished in a tique tin. Chase brass is the base metal of the Colonial fixtures, which assures them a lo life, free from rust or deterioration.

You will note that several Chase sconc and chandeliers make use of color. This is tho oughly in line with early customs, and Cha finishes several of these distinctive fixtures Barn Red, Corn Yellow and Laurel Green.

Chase also makes a group of quaint tab lamps thoroughly typical of the Early Amer can period. Literature will be sent on reque



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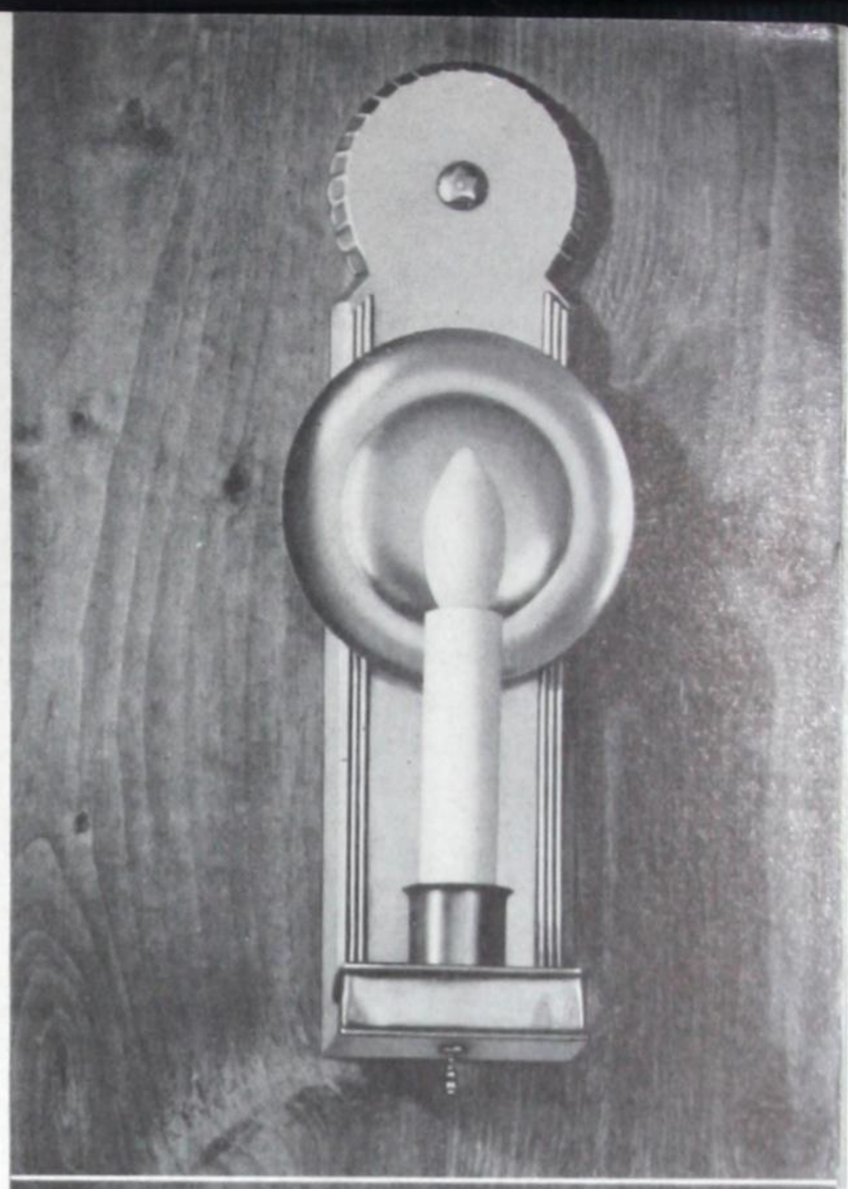
PINE TREE SHILLING SCONCE

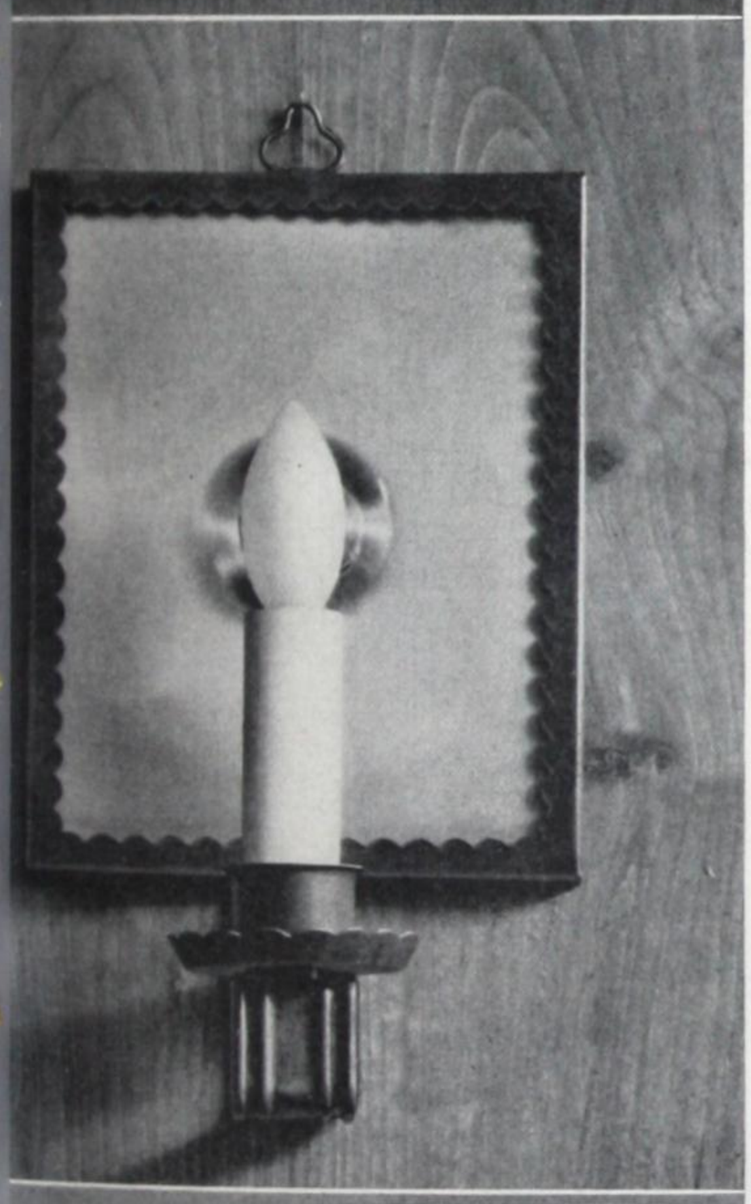
Its delightful scalloped edges, antique tin finish and authentic pine tree decoration of Colonial brass, are all evidence of its pre-revolutionary origin. Height 11″, Width 9″, Projection 4″, $7.50.

At Right

PORTSMOUTH SCONCE

The shape of the pan, reflector, and crimped edge top, is intriguingly authentic. The reflector is finished in dull steel, the back plate in Colonial brass. Height 15½″, Width 5½″, Projection 3¾″, $7.50.





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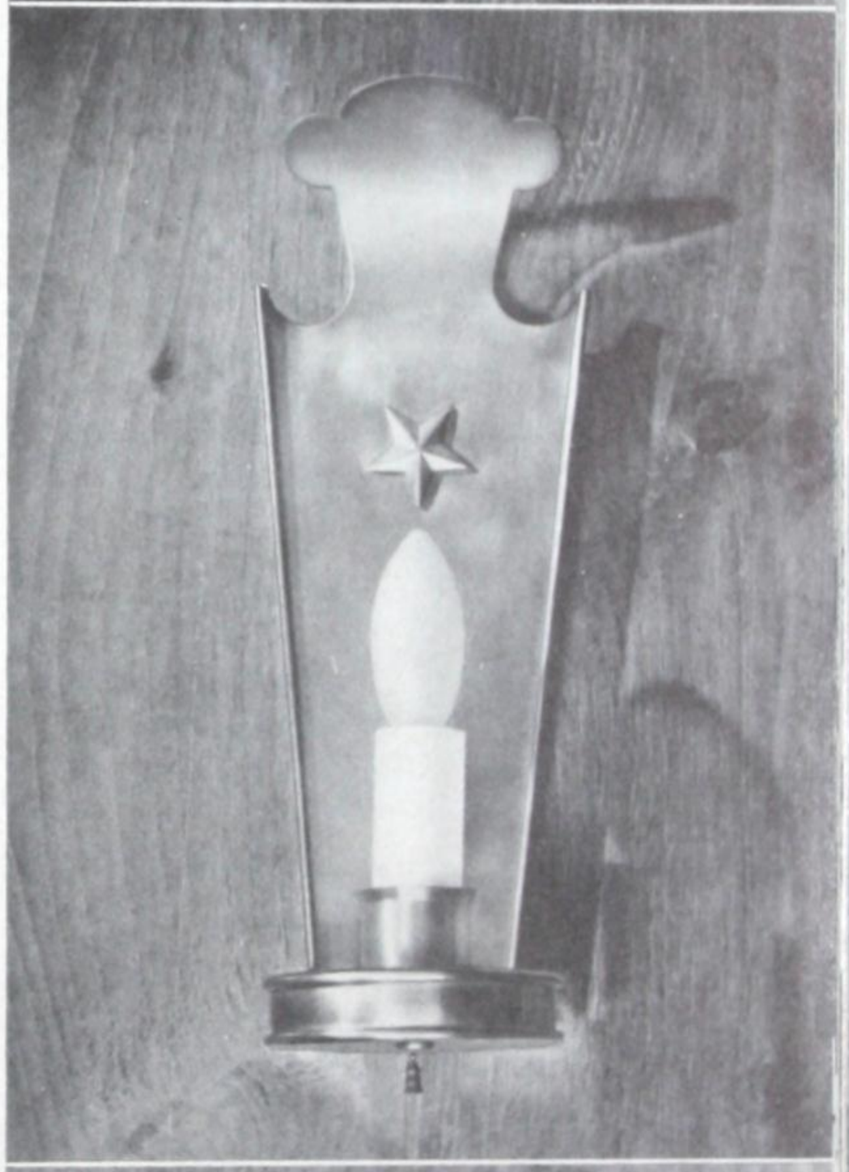
WITCH LIGHT SCONCE

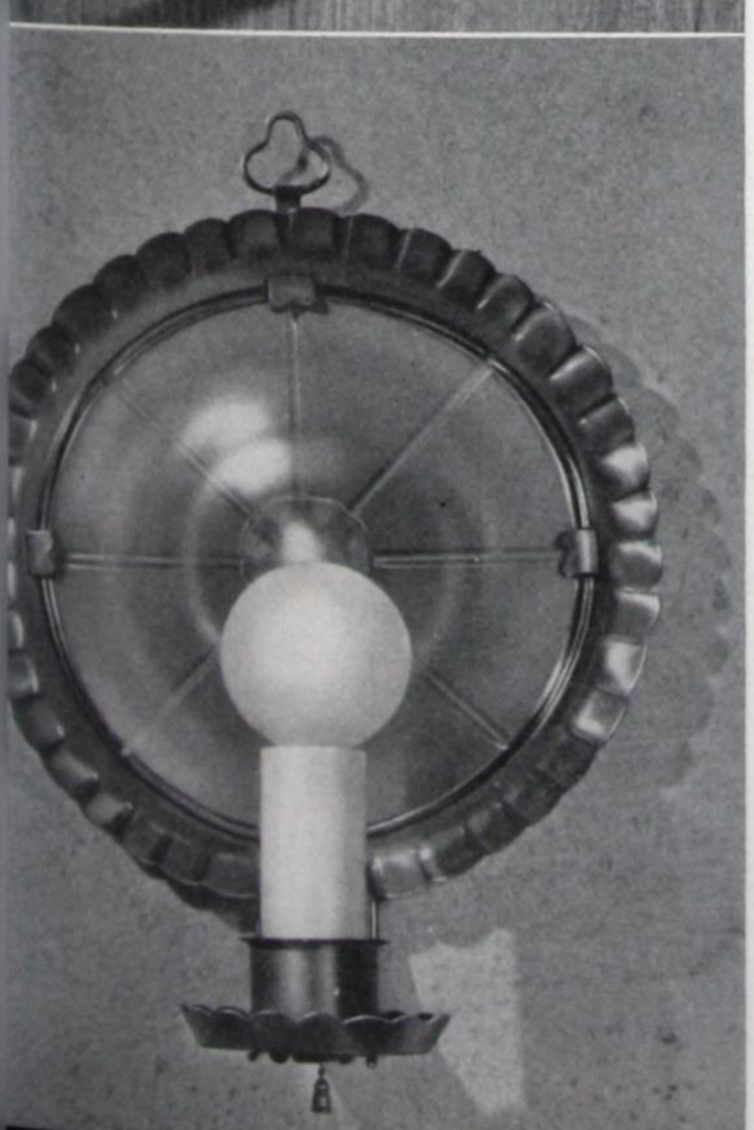
Authentically Early Amercan even to its colors — Barn Red, Corn Yellow, or Laurel Green. The bull's eye glass reflector is backed with a bright tin finish. Height 12″, Width 7″, Projection 4″, $12.00.

At Right

GREEN MOUNTAIN SCONCE

The spirit of early New England is perfectly expressed in its clean cut, severe lines, finished in either antique tin or Colonial brass. Height 13″, Width 4½″, Projection 3¾″. Antique tin $7.50, Colonial brass $7.00.





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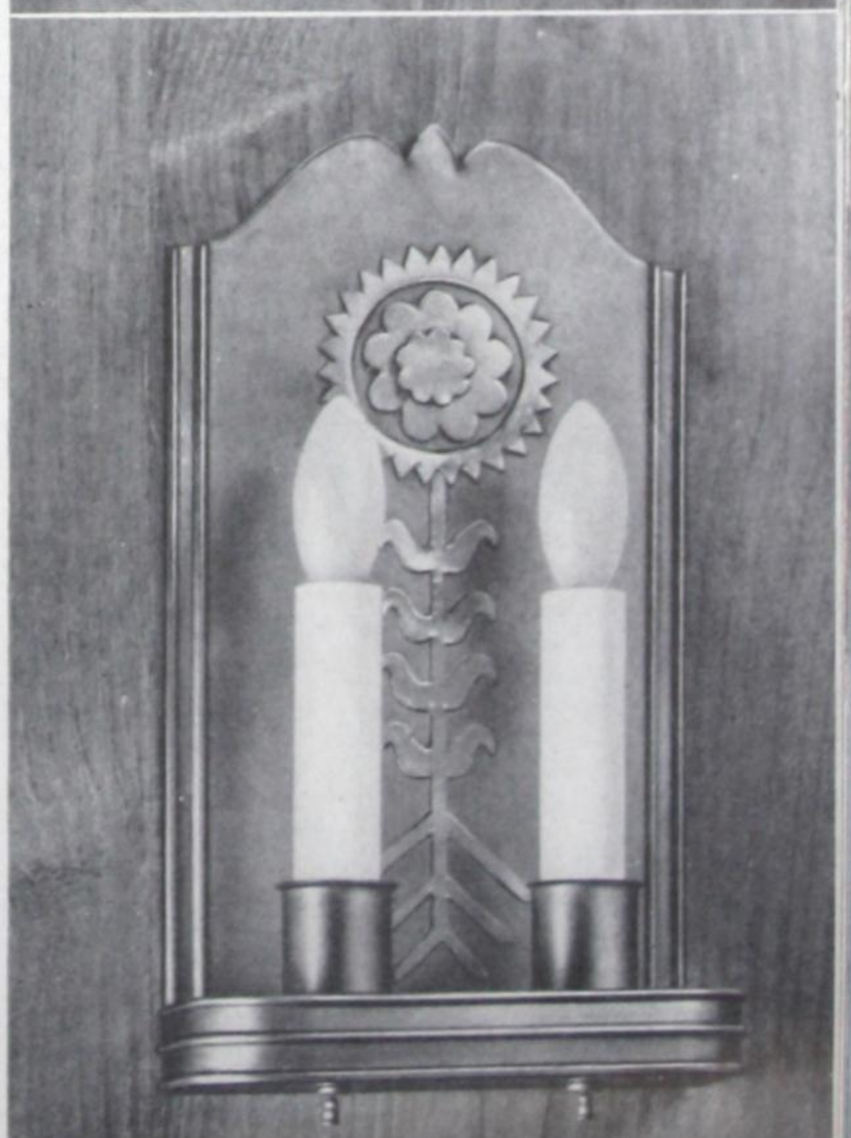
BULL'S EYE SCONCE

Made of Chase brass with an antique tin finish. The Bull's Eye is bottle-green glass and the back plate is sprayed dark green under the glass. Height 12″, Width 8″, Projection 4½″, $8.00.

At Right

CONNECTICUT SCONCE

The famous Connecticut sunflower decoration gives this stately Early American sconce added appeal and beauty. Authentically finished in antique tin. Height 13″, Width 7½″, Projection 4″, $10.00.





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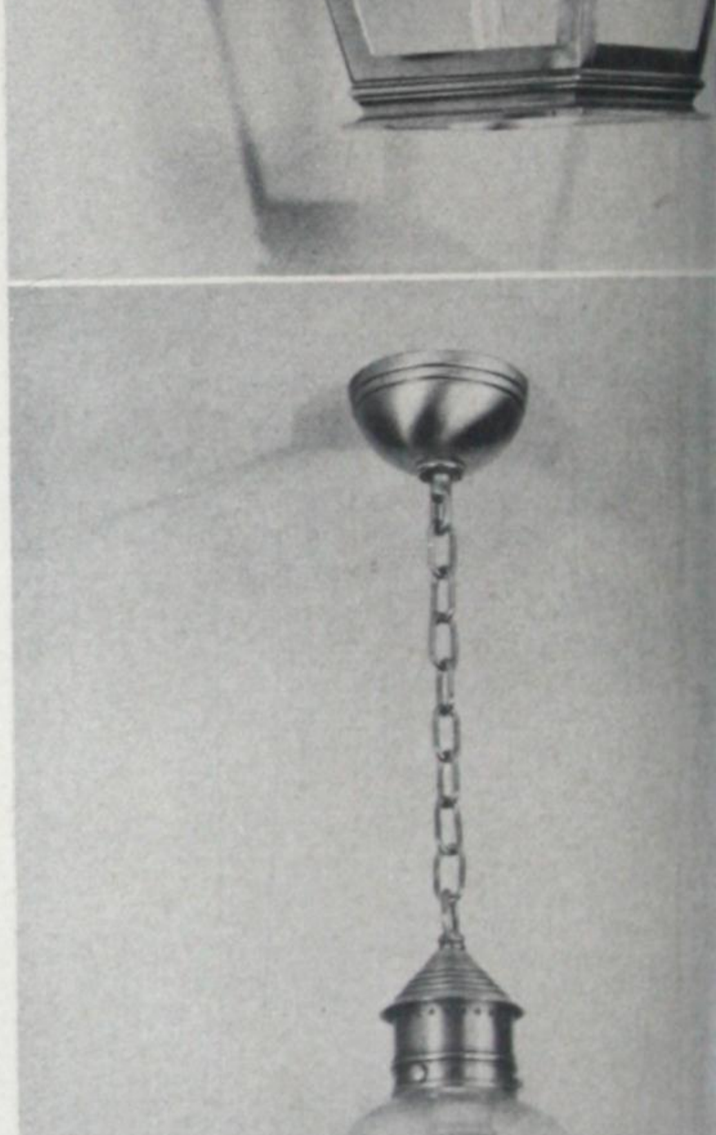
SAYBROOK LANTERN

Its pleasing simplicity will lend an authentic touch to any colonial home. Finished in Colonial brass or in black. With chain or bracket hanger. Height 14⅞". Width 7¼". Brass finish $15.50. Black finish $14.00.

At Right

WILLIAMSBURG LANTERN

May be furnished in Colonial brass or black finish with white interior. Choice of chain or bracket hanger. Height of lantern 13¼". Width 6½". Colonial brass finish $21.00. Black finish $19.00.





At Left

HARTFORD LANTERN

The Hartford with its Colonial brass finish is fitted with clear glass panels and a white inside reflector to throw a good amount of light. Height 14", Width 6⅜", Projection 3½", $15.00.

At Right

NANTUCKET LANTERN

Reproduced from an original whale oil lantern, finished in Colonial brass or black. It also comes with a bracket hanger. Height over-all 45", Height of lantern 11¼". Width 6¼". Brass finish $9.00. Black finish $8.25.



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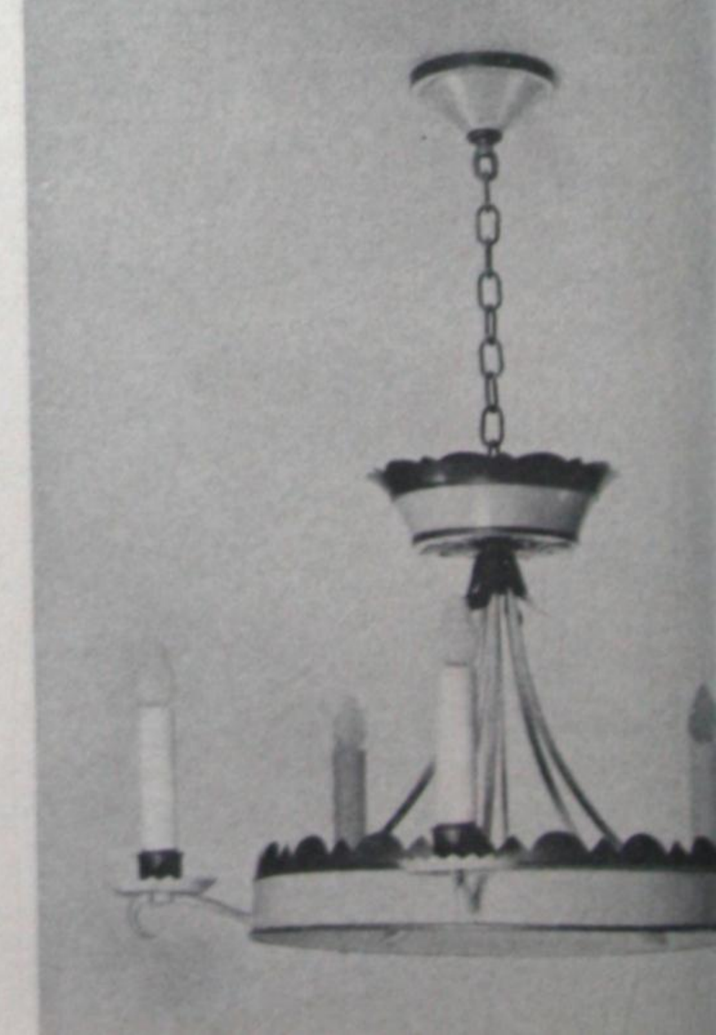
COLEBROOK

Colonial Barn Red is the color of this old chandelier, the relieving decorations being in antique tin. The center cone is equipped with indirect lighting. Over-all Height 45". Height of fixture 19". Width 20", $35.00.

At Right

BROOKFIELD

Decorated in Corn Yellow and antique tin. A switch makes the indirect lights in the top pan independent of the candle lights. Height of fixture 15¼", Height over-all 45", Width 22", $37.50.





GEORGIAN



The Georgian period practically dominated the 18th Century and takes its name from the three Georges who occupied the throne of England in that century.

The dignified, well-bred order of existence so characteristic of 18th Century decoration is reflected in these lovely Georgian Lighting Fixtures by Chase. Every style is represented — from Early Georgian to Empire. This wide range provides a selection of suitable fixtures, whether your home is furnished in the style of Queen Anne, Chippendale, Adam, Hepplewhite or Sheraton designs.

Authentically reproduced, these gracious fixtures make use of all the decorations made popular by the Georgian school of design — shells, urns, leaves, fretwork, swag and flame finials — thus giving each Chase fixture a character that is distinctly "in period."

While most of these Chase fixtures follow the Georgian taste in the use of brass with glass or a lustrous black finish, several of the wall brackets are charming in Regent Red or Adam Green. Chase also makes table and floor lamps in designs that harmonize.



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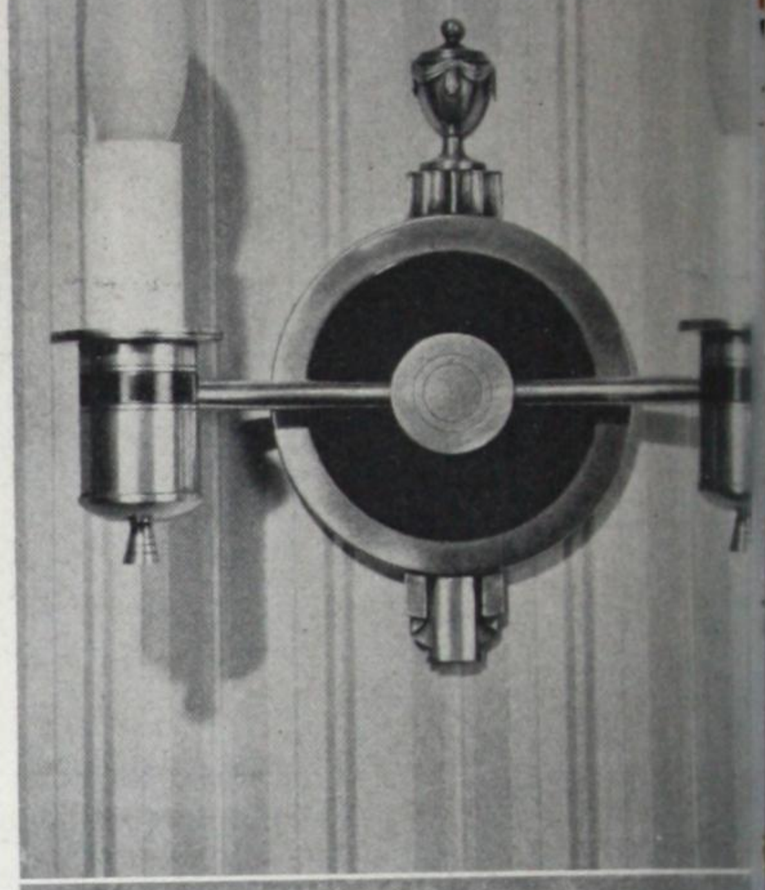
HEPPLEWHITE

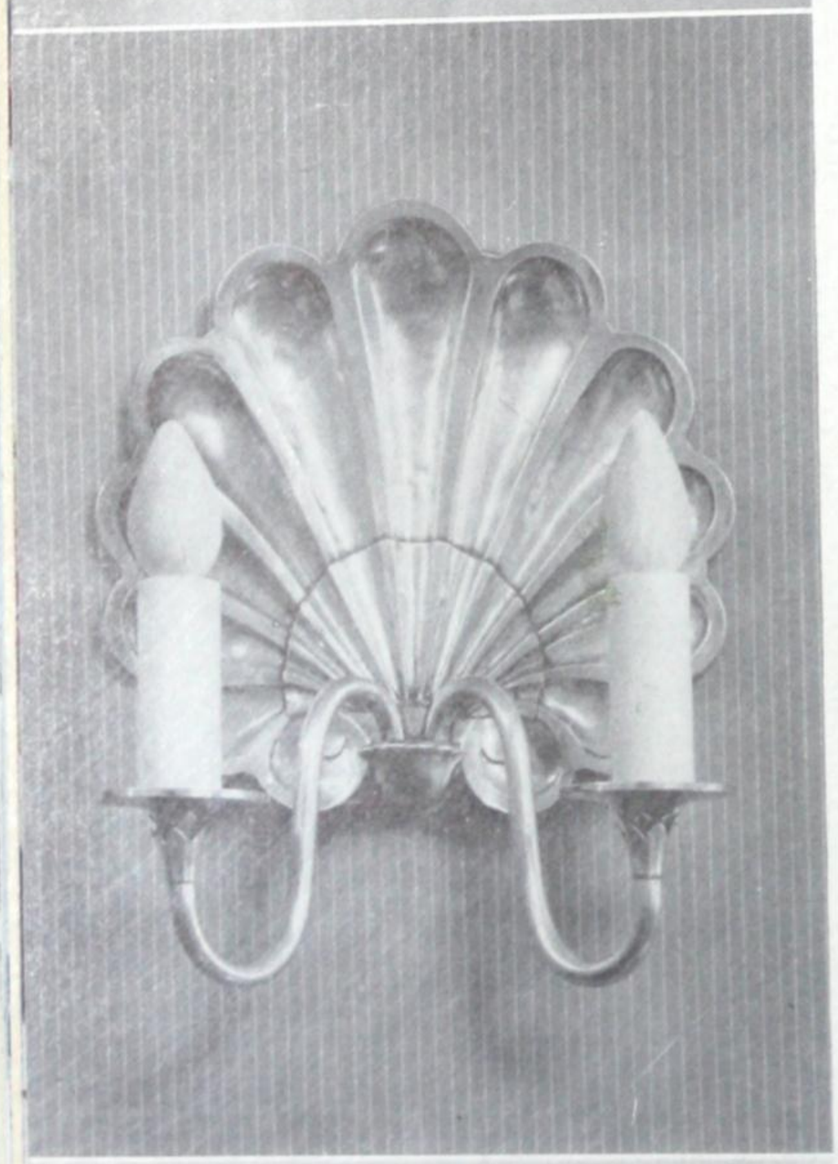
Illustrating the beauty of true simplicity, this fixture is a good example of Georgian design. Made of brass it is finished in Georgian brass. Height 9½", Width 6", Projection 3½", $7.00.

At Right

BRIGHTON

Handsomely finished in tones of black and gold this wall bracket may be used for Georgian, Federal, Directoire or Empire periods. Height 8", Width 9½", Projection 4¾", $8.50.





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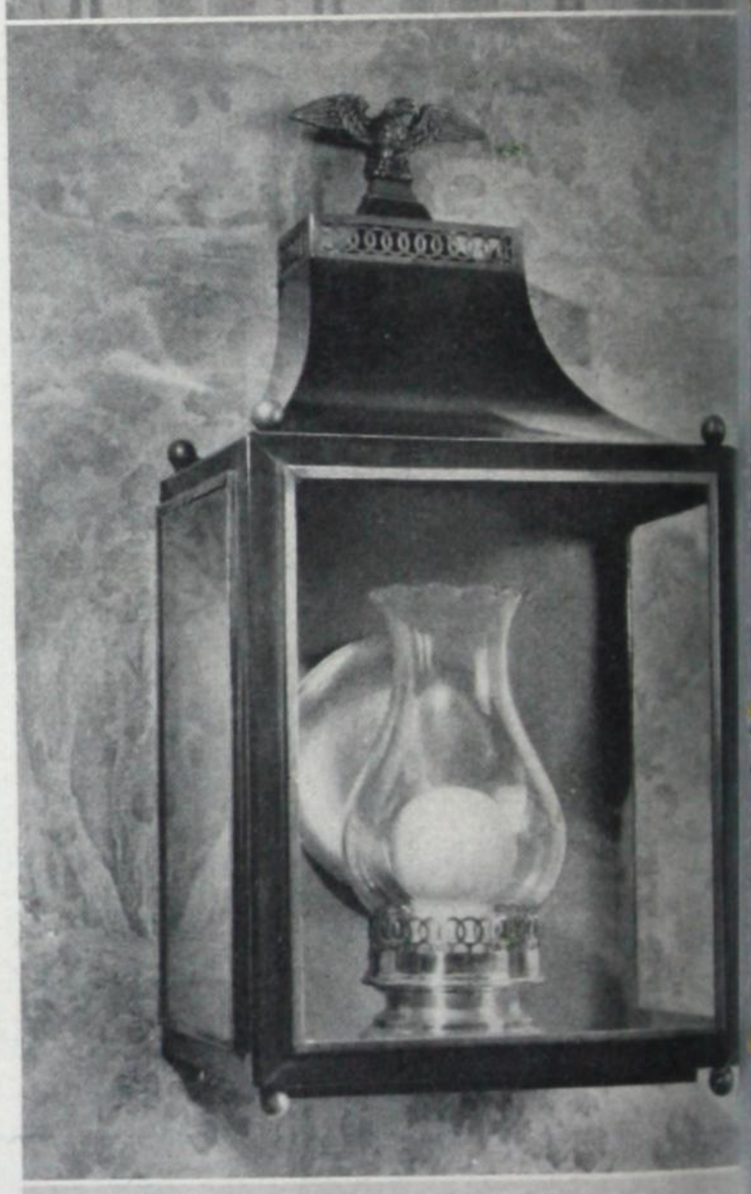
GEORGIAN SHELL

Most popular of all Georgian decorative forms, the shell is adapted by Chase for the back plate. Richly finished in Georgian brass. It also comes with one light. Height 12", Width 10", Projection 4", $16.00.

At Right

JAMESTOWN

Finished in toned black with Georgian brass decorations. Fitted with a crimp-top chimney. Inside sprayed scarlet with reflector in a dull steel finish. Height 17", Width 8½", Projection 6½", $30.00.





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HAMILTON

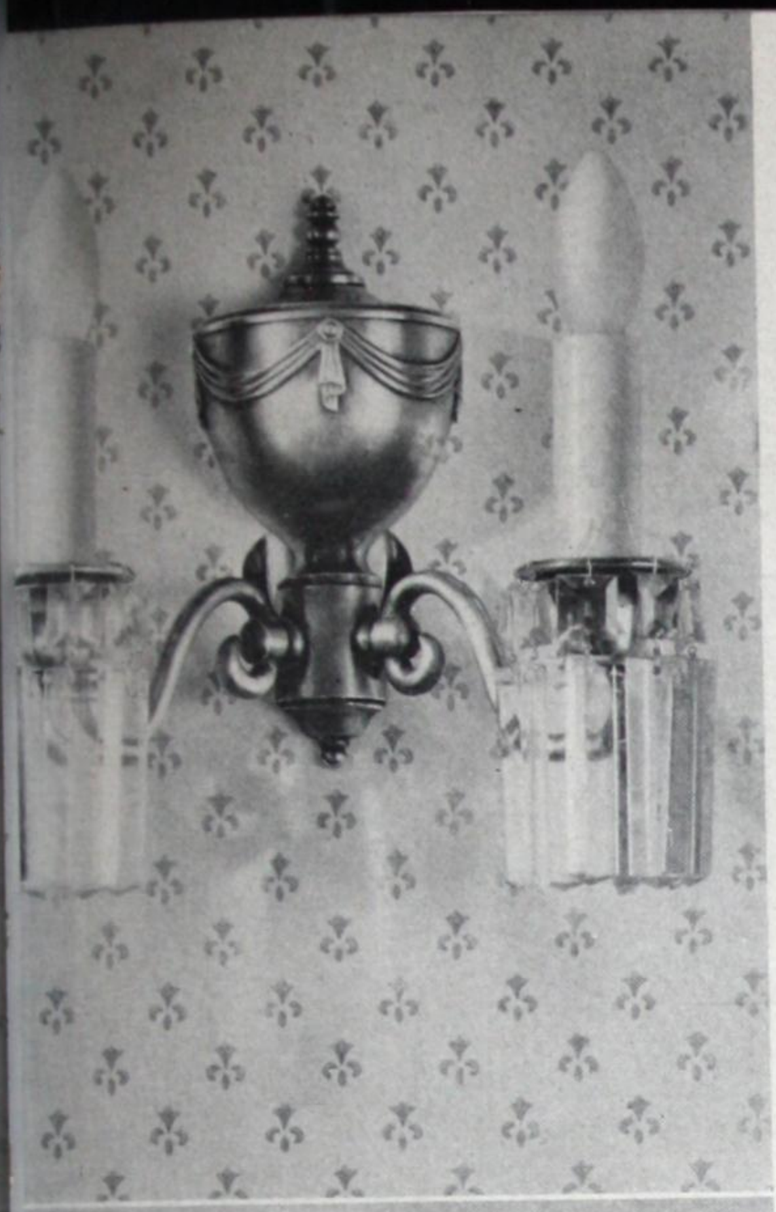
Made of brass, finished in Georgian brass and tone black this lantern with its clear crystal globe is equally suited to Georgian or Federal Colonial homes. Height 16", Width 6", Projection 6½", $12.00.

At Right

SHAFTESBURY

Where lighting distinction is needed in a Georgian entrance hall or stair well, the Shaftesbury has it in abundance. Made of brass with a Georgian brass finish. Height 45", Width 10½", $38.00.





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PEMBROKE

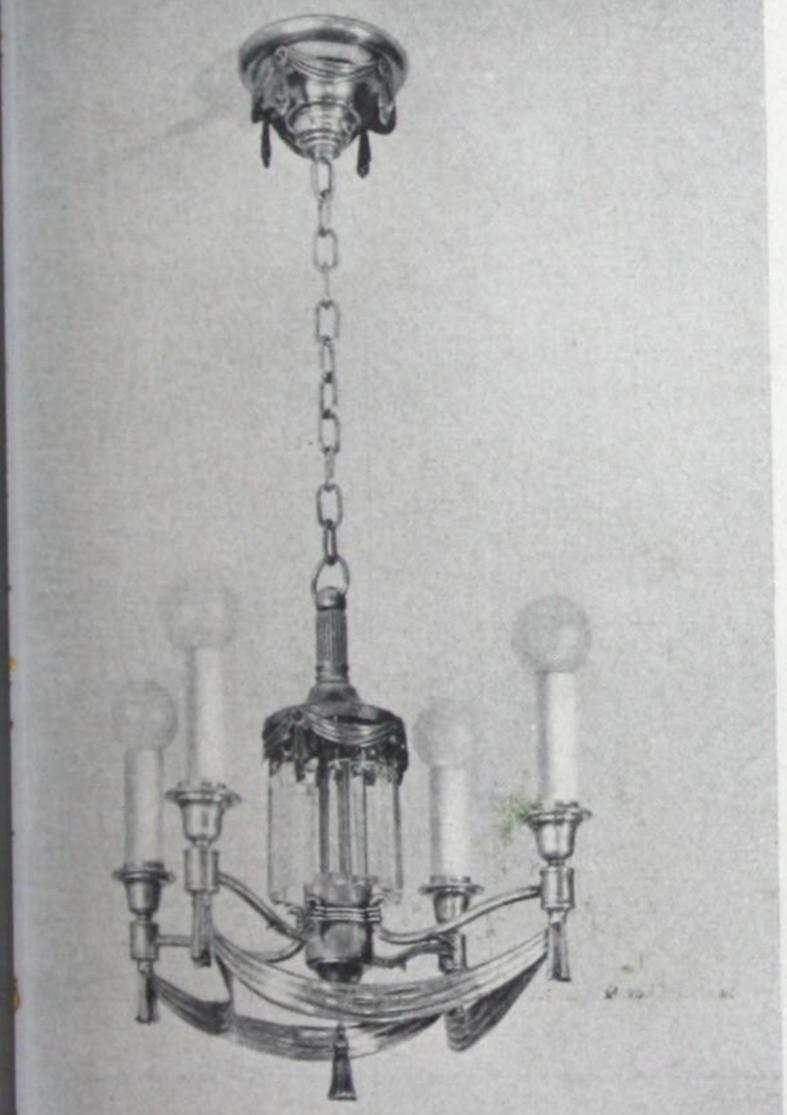
Made of brass in an entirely Georgian brass finish, the elegance of this fixture is suited to Georgian interiors. It also comes with one light. Height 9″, Width 9″, Projection 4½″, $20.00.

At Right

WINDSOR

The Windsor with its characteristic Georgian decoration is finished in either Georgian brass or satin chromium and will fit in any present-day home. Height 6¼″, Width 11″, $12.00.





At Left

YORKTOWN

The Yorktown made of brass with a Georgian brass finish, it is ideally suited for high Georgian ceilings and will also fit in a Victorian or late Empire setting. Height 45″, Width 15″, $42.00.

At Right

BROMPTON

The classic lines and simple richness make this lantern suitable for halls or circular stair wells. Finished in Georgian brass, with a clear crystal cylinder. Over-all height 45″, Height of fixture 21¼″, Width 9⅜″, $33.00.





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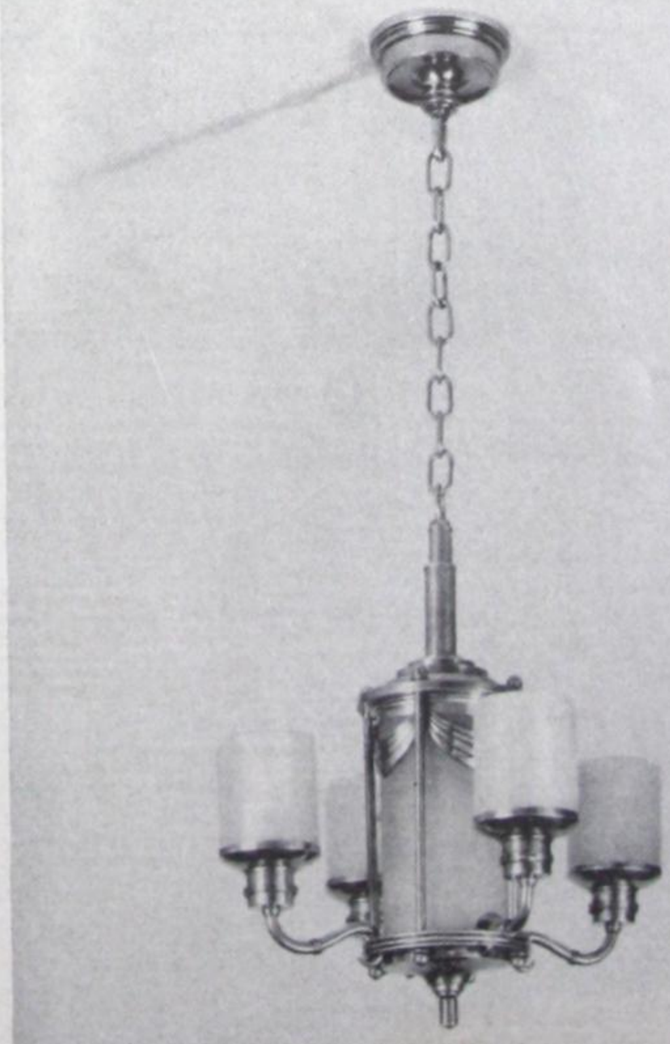
MONMOUTH

Finished in Georgian brass, the urn and large open ring are embellished with characteristic Georgian leaf designs. When lighted it glows with a myriad of lights. Height 45″, Width 18″, $50.00.

At Right

DUNBAR

Typically Georgian in decoration, finished in Georgian brass. The center glass cylinder encloses a light and is frosted to match the candle-light glass. Height 45″, Width 14″, $48.00.



FEDERAL



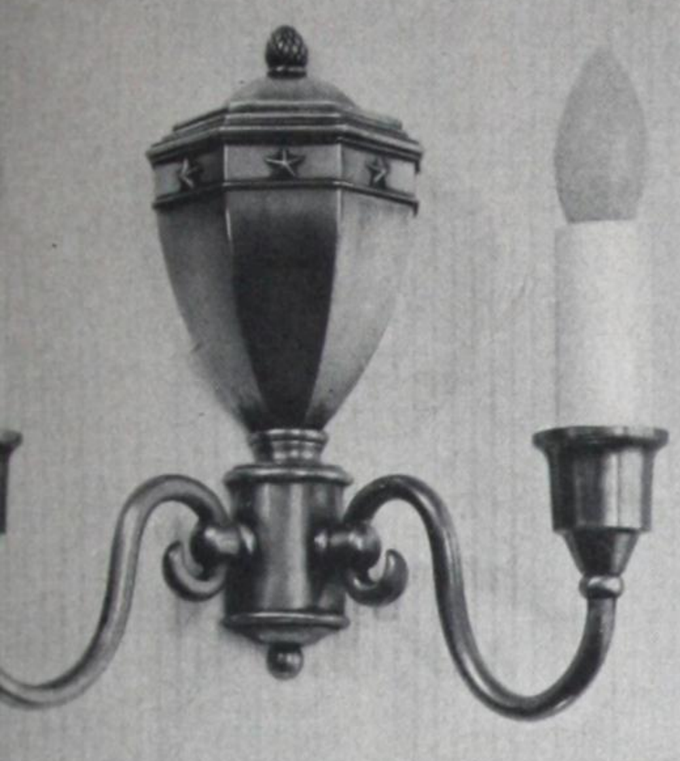
Created during the years immediately following the American Revolution, the Federal period continued as late as 1830 and beautifully expresses in its styles and designs a rich simplicity that perfectly mirrors the spirit of those patriotic days.

Chase Federal Fixtures have such American decorations of the period as the eagle, stars of the newly designed flag, and the tobacco leaf made famous by Thomas Jefferson.

To fit your own scheme of decoration there are fixtures ranging from the brilliant to the conservative, and they reflect every Federal type in finishes and designs which have hitherto been unobtainable. Many of them may be used in Directoire, or Empire settings, since these periods have a close relation to the Federal period.

Especially designed for today's Colonial home, Chase Federal Lighting Fixtures are equal to custom-built fixtures in every respect, yet priced from one-half to one-third less.

You will also find that Chase table lamps and floor lamps, brilliantly styled in the Federal manner, will contribute much to your interiors. Literature will be sent upon request.



At Left

JEFFERSON

The back plate with its row of stars and pineapple top finial is typical of Federal decoration. Finished in Federal brass. Also comes with one light. Height 9½″, Width 10″, Projection 5″, $12.50.

At Right

SALEM EAGLE

Authentically reproduced it is rendered in dull silver and framed in a circle of brass stars against a back plate of jet black. Finished in Federal brass. Height 10″, Width 12″, Projection 4″, $14.00.





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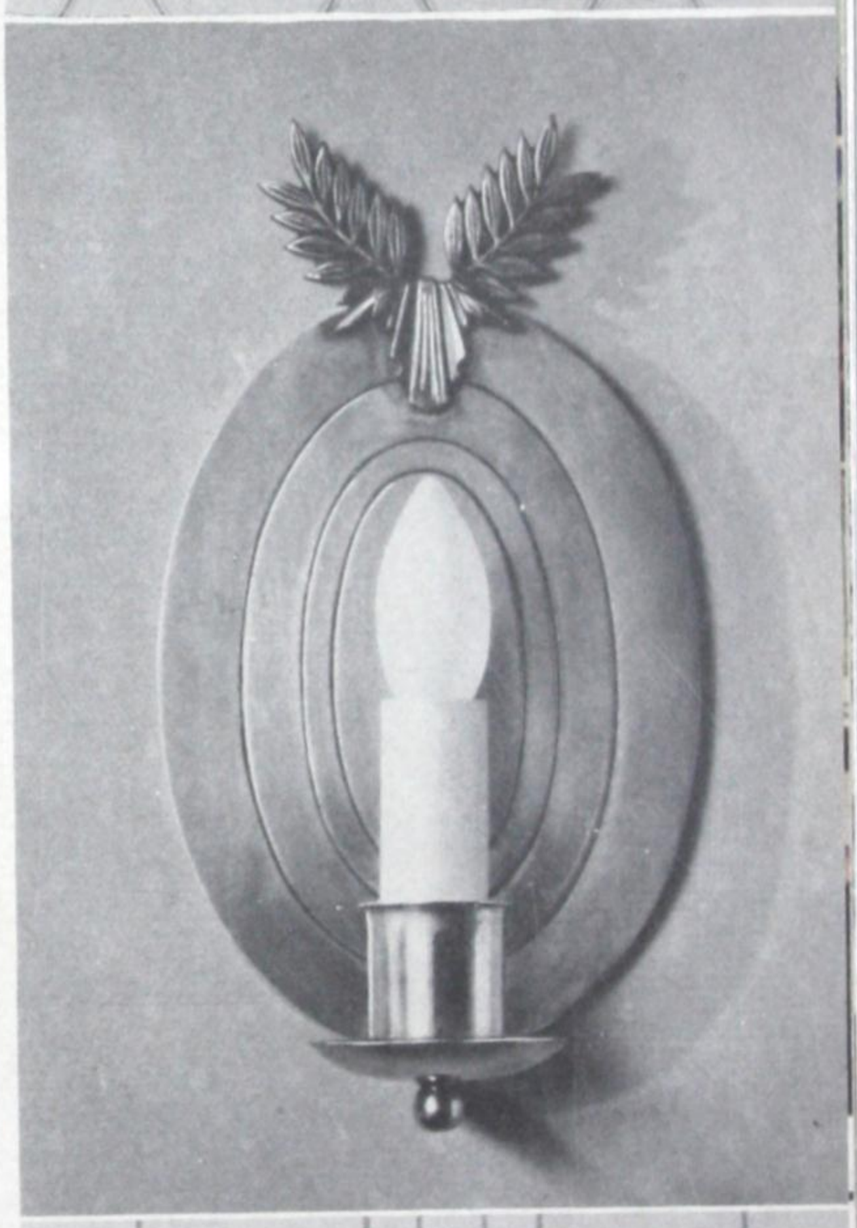
MONROE

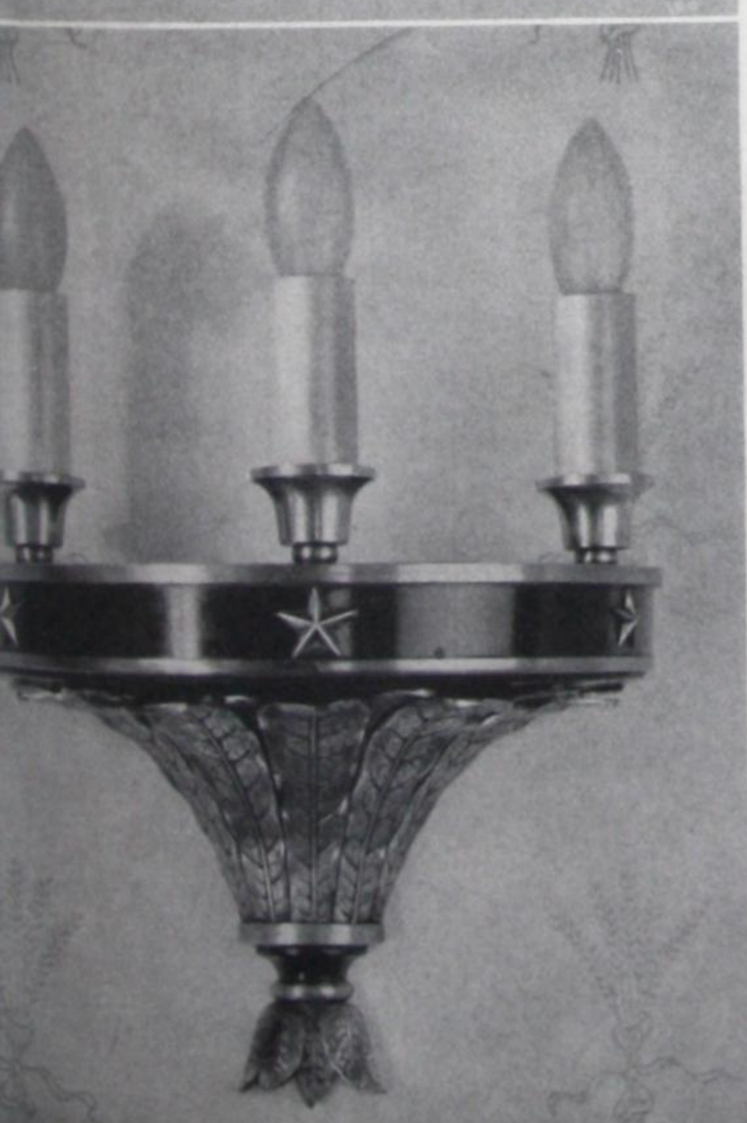
The authentic Federal design in the center is reproduced in burnished silver etched in dark ruby glass. The brass back plate and candle arms are of Federal brass finish. Height 11″, Width 10½″, Projection 4″, $16.00.

At Right

VICTORY

The victory decoration of palms and swag gives this pleasing bracket its name. Finished entirely in Federal brass, it also comes with two lights. Height 10″, Width 6″, Projection 3¼″, $5.00.





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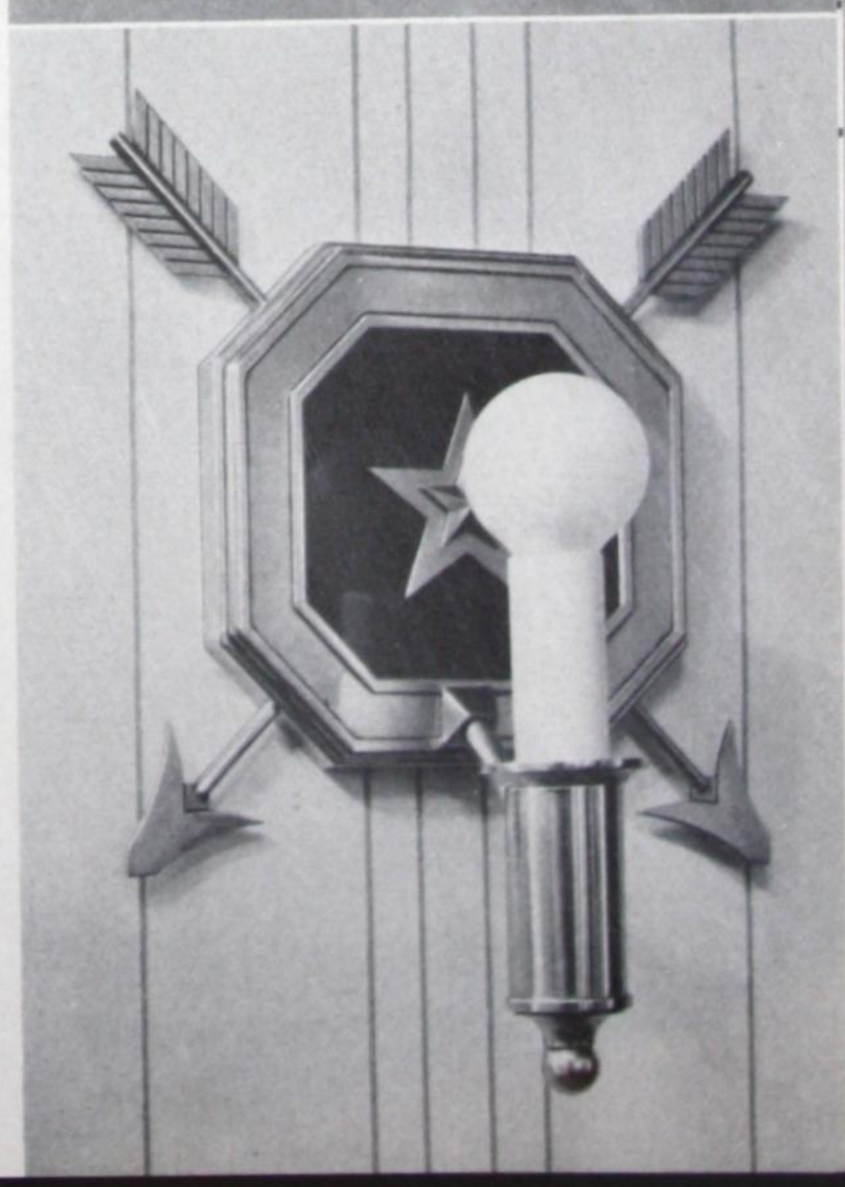
MONTICELLO

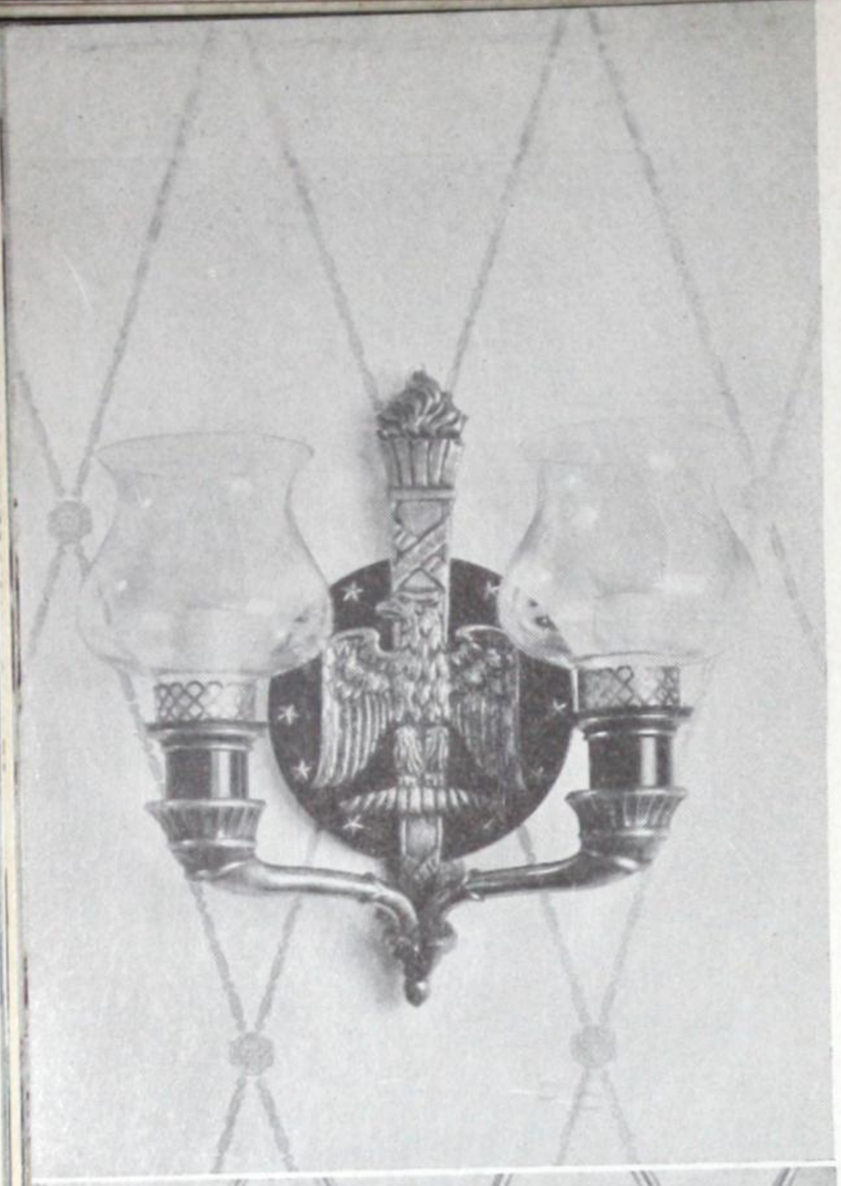
The Monticello is authentically Federal in design, decoration and finish of Federal brass and black. The back plate hides an indirect light. Height 11″, Width 10″, Projection 4¾″, $20.00.

At Right

MADISON

This bracket harmonizes with the Albemarle ceiling fixture. The back plate, pierced by two shapely arrows, encloses a sheet of Bristol blue glass. Finished in Federal brass. Height 10½″, Width 10½″, Projection 4″, $12.50.





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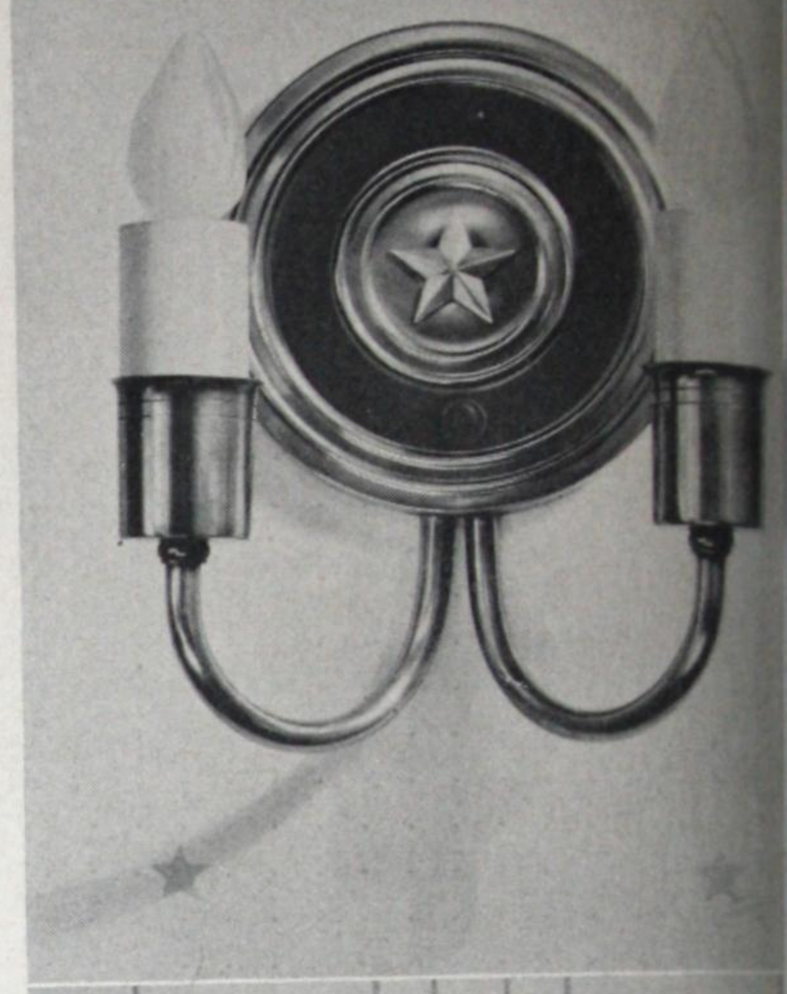
WHITE HOUSE

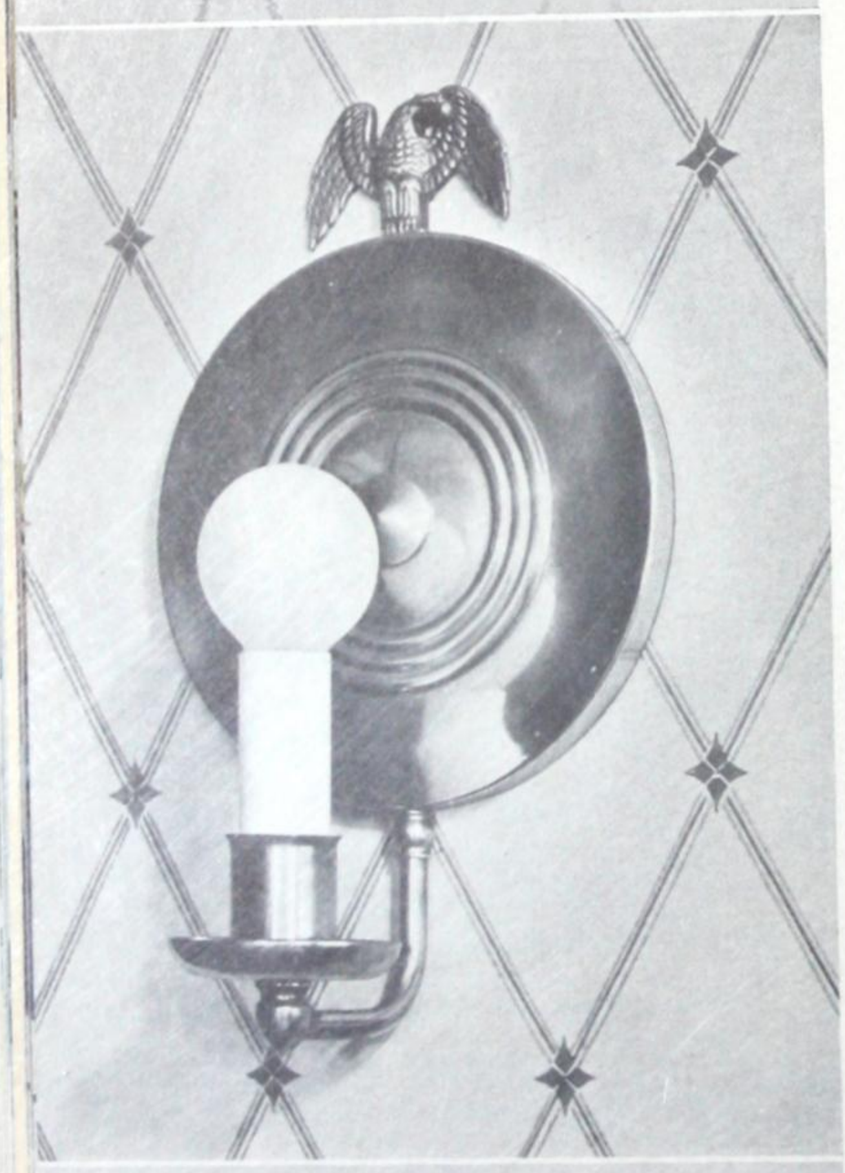
The eagle and torch design so popular in Washington's time, forms the center design of this fixture. Richly finished in Federal brass and toned black. Height 11″, Width 9″, Projection 4″, $17.50.

At Right

STAR

A black circle on the back plate emphasizes the center star. Finished in Federal brass. Also made with one light. Height 8½″, Width 7½″, Projection 3½″, $4.00.





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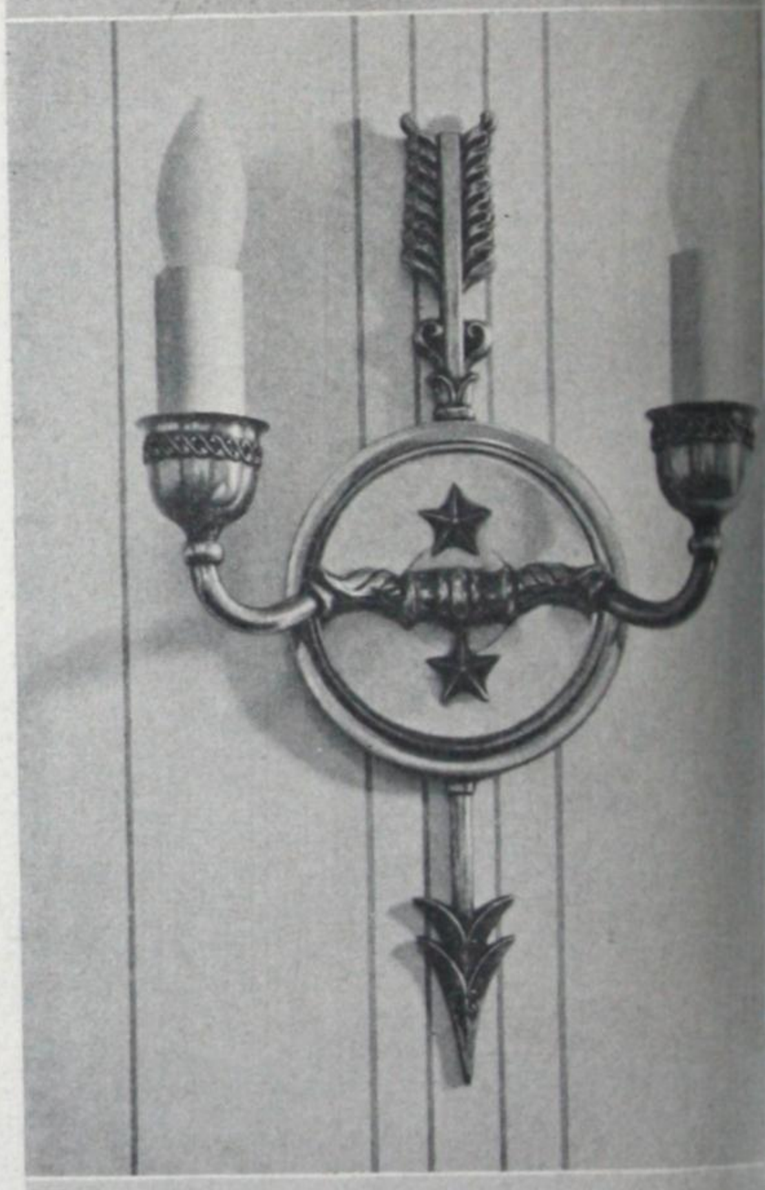
CONCORD

The Concord is an accurate reproduction of an early Federal lighting fixture design. Finished entirely in Federal brass. It also comes with two lights. Height 13½″, Width 8″, Projection 5″, $5.00.

At Right

FAIRFAX

A genuine reproduction of the original Federal design, entirely finished in Federal brass. It is also suitable to Empire and Directoire interiors. Height 13″, Width 9″, Projection 3½″, $13.50.





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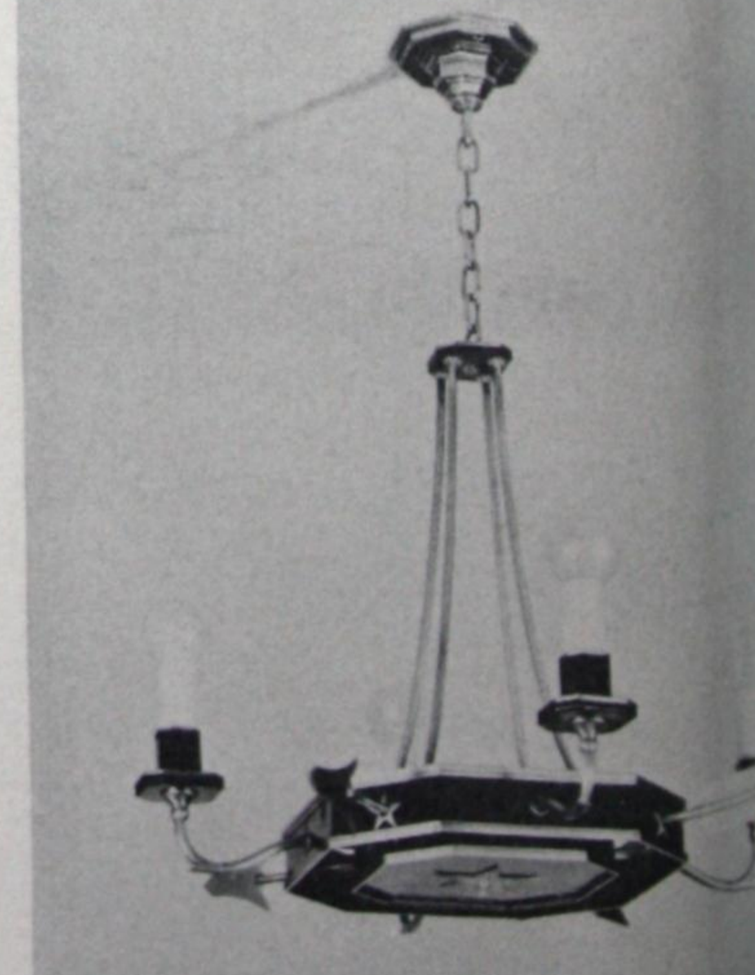
RICHMOND

An authentic reproduction in design, finish and decoration. Finished entirely in Federal brass and employing for decoration both Federal stars and the American eagle. Height 45″, Width 17″, $35.00.

At Right

ALBEMARLE

Its color tones of black and gold, octagonal shape, decorative stars and arrows are thoroughly Federal in design. Finished in Federal brass and black. The center body holds two indirect lights. Height 45″, Width 21″, $42.00.





EMPIRE



Chase Empire Lighting should be particularly welcome, since for the first time, it is possible to obtain authentic Empire Lighting Fixtures without resorting to costly importations or expensive custom-made fixtures.

Originally created by Napoleonic decree, the Empire period of bold and dramatic style, symbolized the new spirit of the French people and constituted a break from the gilded furnishings of the Bourbon Kings.

Selecting carefully from both French and American Empire forms, Chase has created a group of Empire Fixtures which are distinguished by pure design, unusual finish and faultless reproduction. Made of lasting Chase brass, each one is highly effective when used in homes furnished in this splendid style.

Adding authentic charm to Chase Empire Fixtures are the characteristic decorations of the period — the Imperial Star, the Torch of Freedom, the Victor's Wreath of Laurel. There are also charming painted tole fixtures, finished in traditional colors of Directoire White, Republic Red or Corsican Green — each trimmed with Empire brass.



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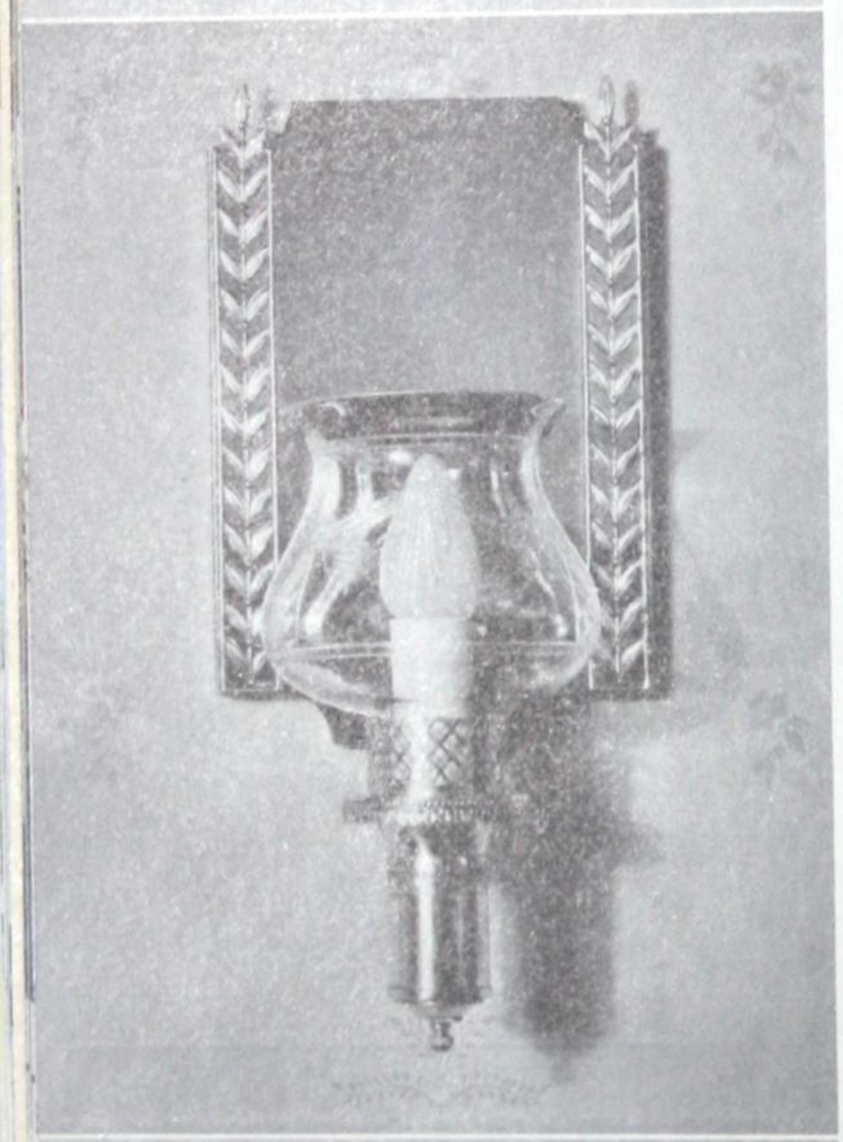
RICHELIEU

Finished in either Republic Red, Corsican Green, or Directoire White and trimmed with Empire brass. Obtainable with or without shades and in one or two light models. Height 10″, Width 5½″, Projection 4¾″, $16.00.

At Right

MURAT

This bracket has a black circle on the back plate to emphasize the center torch design. Finished in Empire brass. Also made in one light style. Height 8″, Width 9½″, Projection 4″, $5.00.



At Left

TALLEYRAND

Finished in Empire brass, the pierced laurel leaf decorations and the lacy gallery serve as a lovely frame for the gunmetal mirror. Height 11½″, Width 6″, Projection 4″, $12.50.

At Right

ELBA

The Victor's Wreath of Laurel frames a gunmetal mirror in which the crystal etched chimney forms a reflection. Entirely finished in Empire brass. Height 11¾″, Width 9″, Projection 4½″, $15.00.



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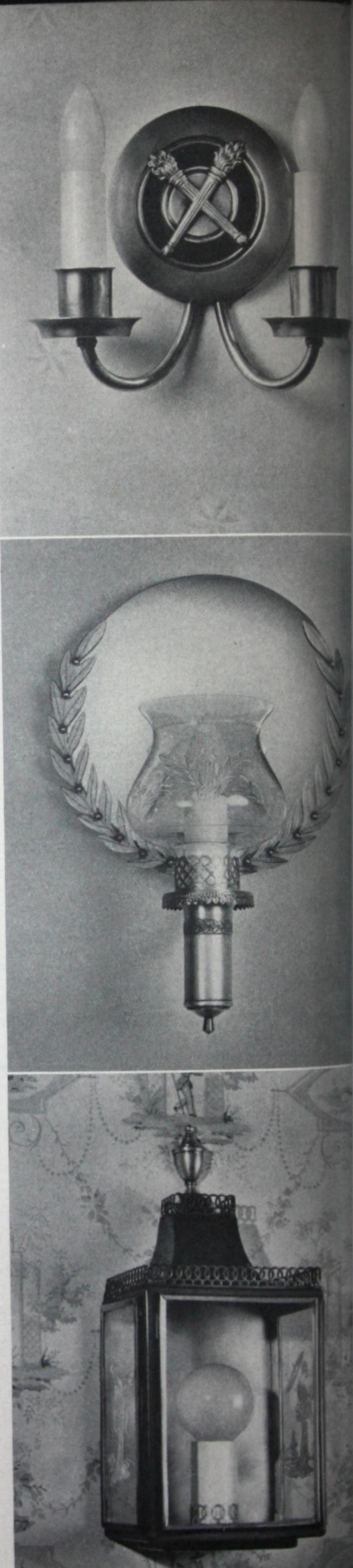
RECAMIER

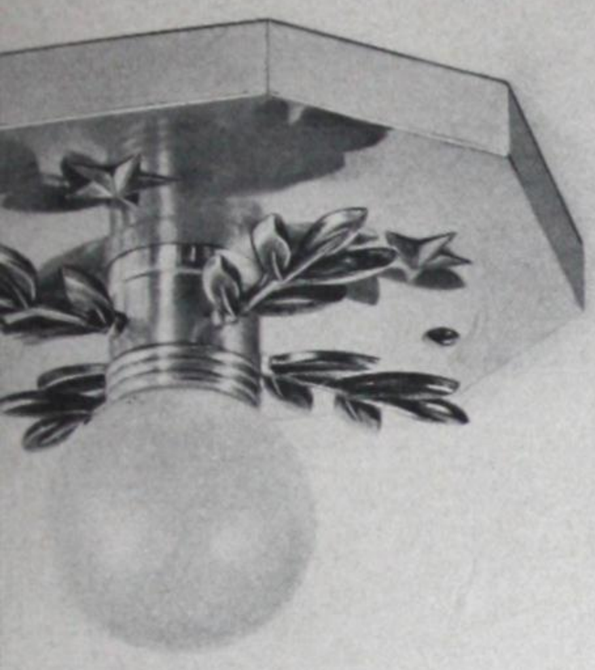
The top drapery swag is painted white relieved by touches of blue and gold. The candle holder and arm are finished in Empire brass while the gunmetal mirror acts as a reflector. Height 13″, Width 7″, Projection 4¼″, $15.00.

At Right

TEA TRADE LANTERN

An authentic reproduction in Red or Black with trimmings of Empire brass. The inside is white and on the side panels two silver Chinese figures are etched. Height 13″, Width 6″, Projection 4½″, $17.50.





At Left

ELYSEE

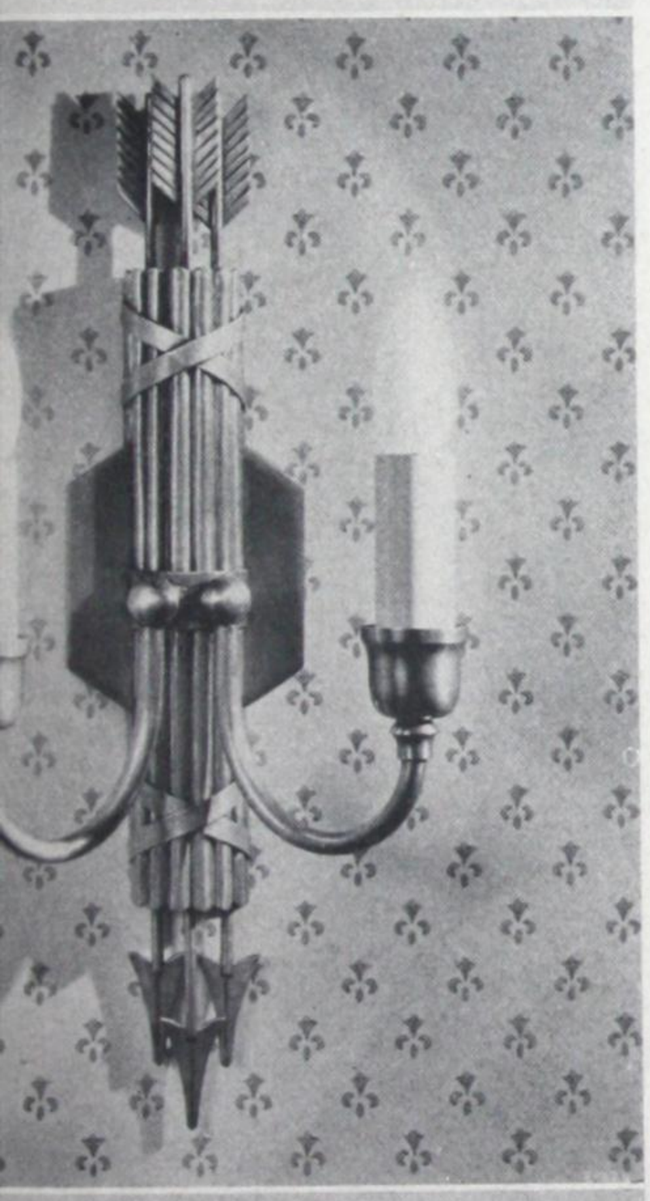
Finished either in Empire brass or polished chromium, this ceiling light is decorated with the traditional Imperial stars and laurel spray. Height 2¾″, Width 6¾″, Brass finish $4.00; Chromium $5.00.

At Right

ST. CLOUD

The pierced gallery around the white, sandblasted glass bowl is extremely decorative in Empire brass finish. Special metal disc prevents light leakage on the ceiling line. Height 6½″, Width 12″, $15.00.





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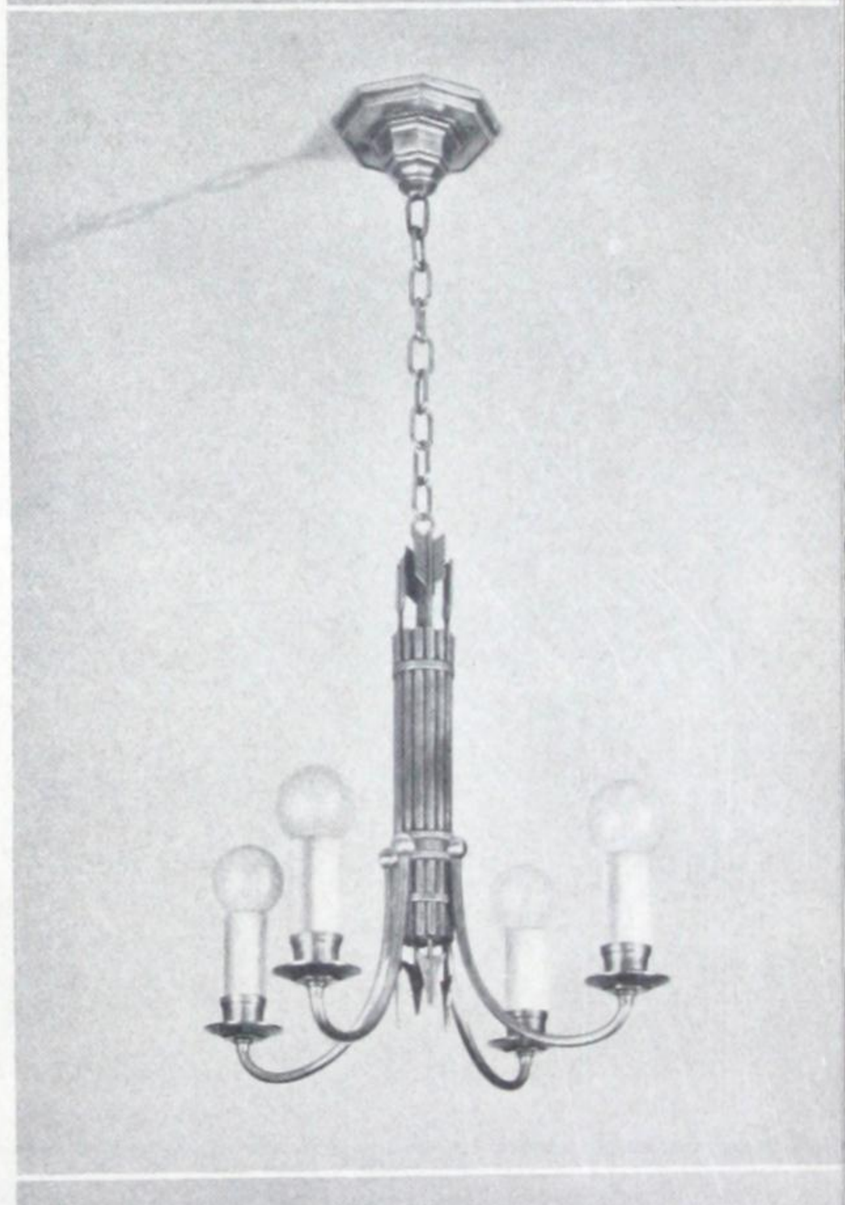
INDEPENDENCE

Strongly expressive of the Republic, in its use of the traditional bound arrows and staves, it is a distinguished fixture. Finished in Empire brass. Height 16″, Width 9½″, Projection 4½″, $12.00.

At Right

BASTILLE

Finished entirely in Empire brass with the arrow heads and feathers carefully forged and the body of heavy cast brass. For the larger rooms in Directoire or Empire homes. Height over-all 45″, Height of fixture 16″, Width 14″, $26.00.





At Left

FONTAINEBLEAU

This design is greatly enhanced by its color tones of black and gold and two exquisite crystal decorations. Finished in Empire brass and black. Height 45″, Height of fixture 28¼″, Width 26¼″, $48.00.

At Right

VENDOME

Colorful in Directoire White, Republic Red or Corsican Green, especially suited to halls, living rooms or dining rooms. Trimmed with Empire brass. May also be had without shades. Height 45″, Spread 14″, $45.00.



CLASSIC MODERN



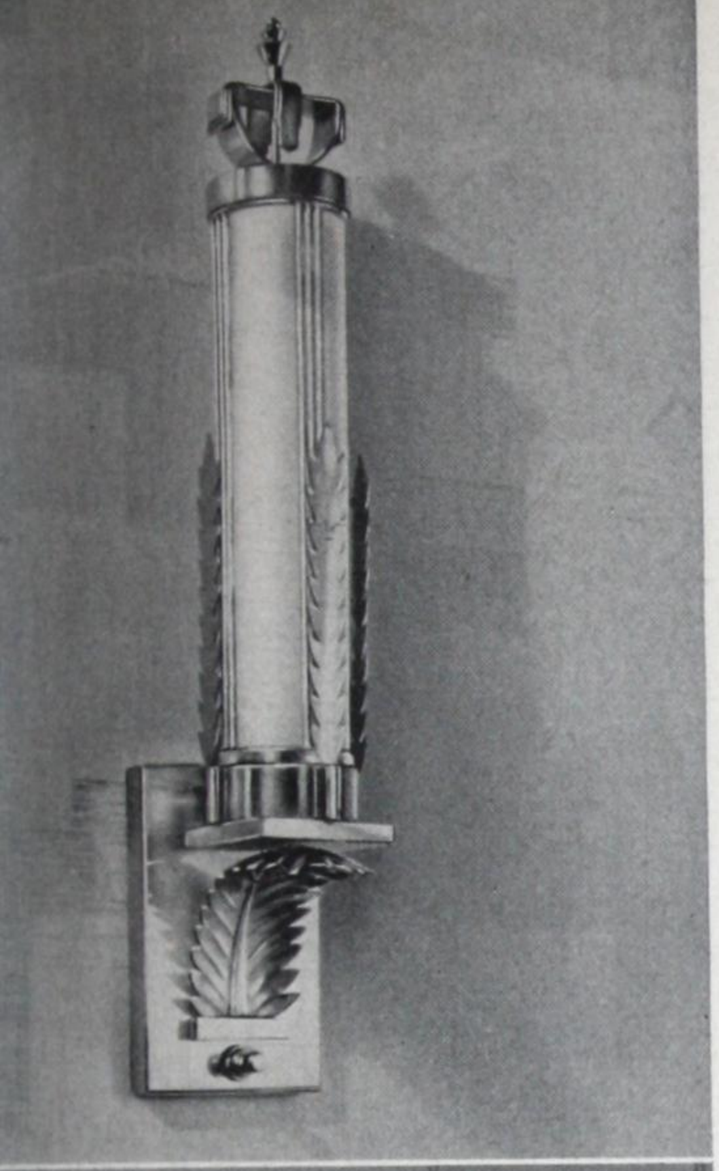
The chief characteristic of the Classic Modern school is the use of classical decorations in conjunction with designs whose simple lines and proportions show their modern purpose.

The rapidly growing demand for Classic Modern furniture, interior architecture and lighting fixtures, is due to the fact that it is an exquisite style that may be used successfully with modernized period decoration. It is not extreme modernism — but a blending of classical forms with the newer ideas of design.

In the decorations employed in Chase Classic Modern Fixtures, you will recogn modernized versions of the urn, arrow, lau spray, drapery swag, banded reeds and st which glorified the classical art of anci Greece and Rome.

In all Classic Modern Fixtures Chase ma use of only the finest glass and employs o lasting brass as a basic metal, finishing it lustrous non-tarnishing chromium.

Beautiful table and floor lamps related design to Chase Classic Modern fixtures also made by Chase. Literature will be s upon request.



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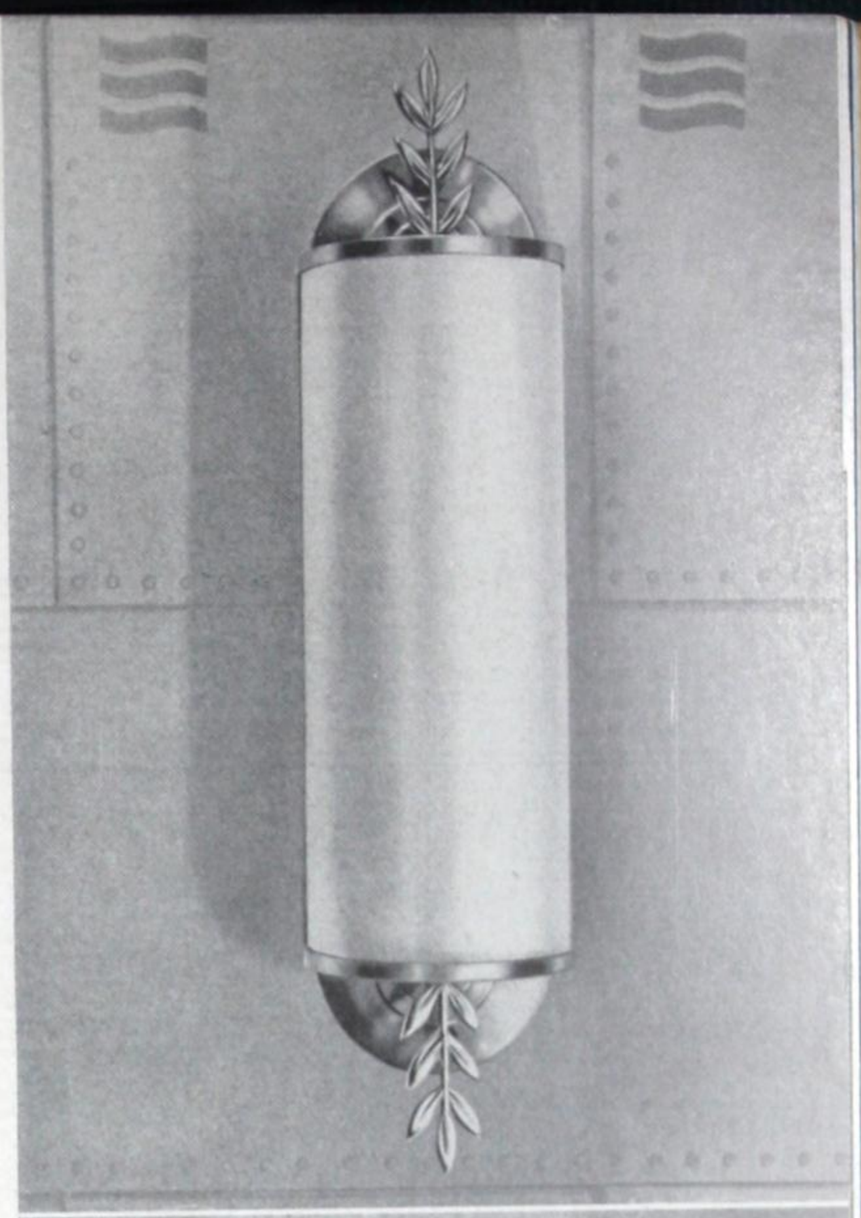
IMPERATOR

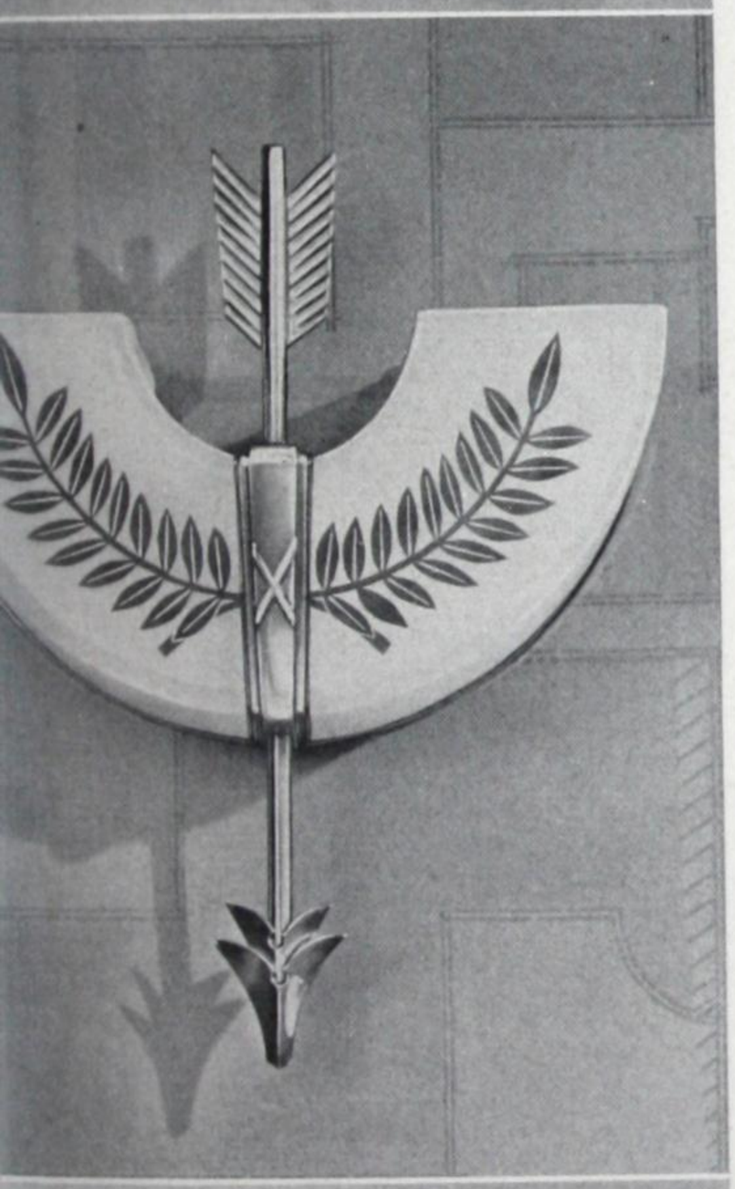
A superb fixture with its polished chromium back plate and etched glass column accented by modern adaptations of leaf, crown and reed motifs. Height 13½″, Width 3¼″, Projection 3¼″, $10.00.

At Right

OLYMPIA

Whether placed vertically or horizontally, it offers unusual lighting possibilities in any classic-modern setting. Finished in polished chromium with frosted glass. Height 13″, Width 3½″, Projection 4″, $10.00.





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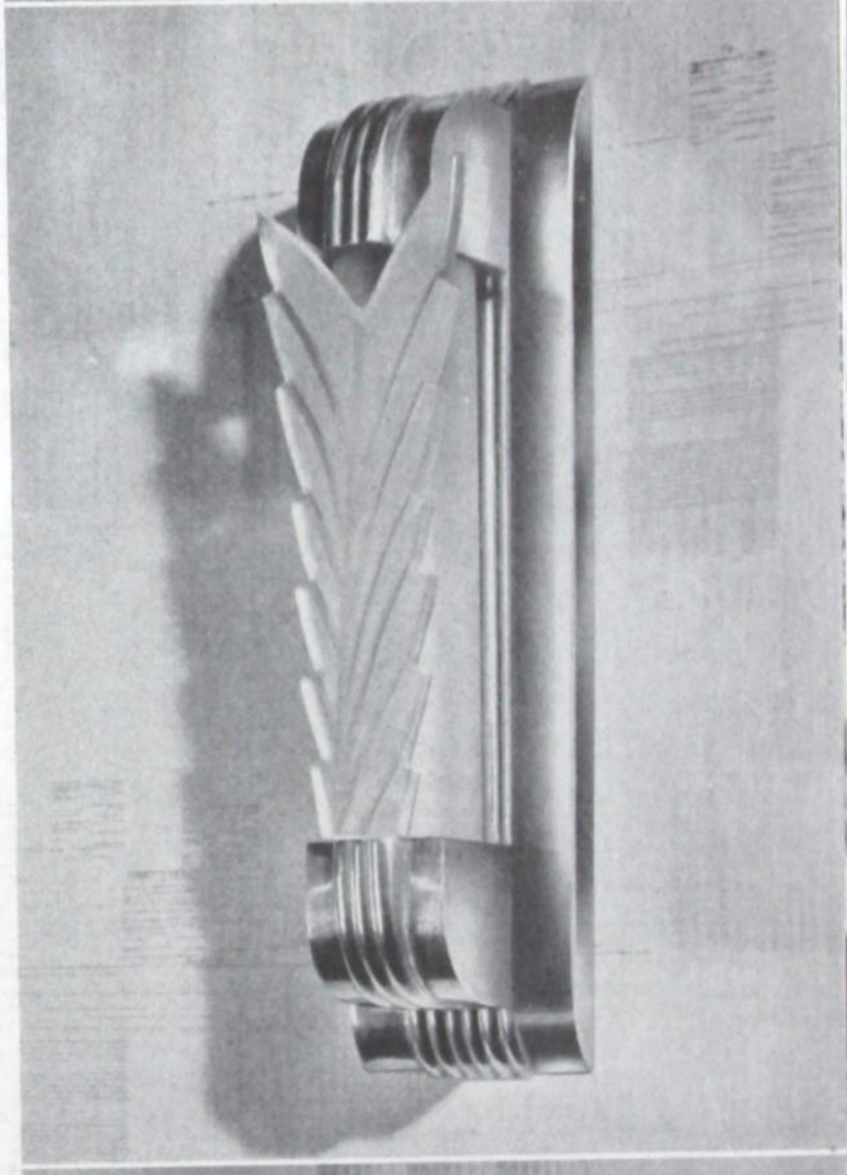
DIANA

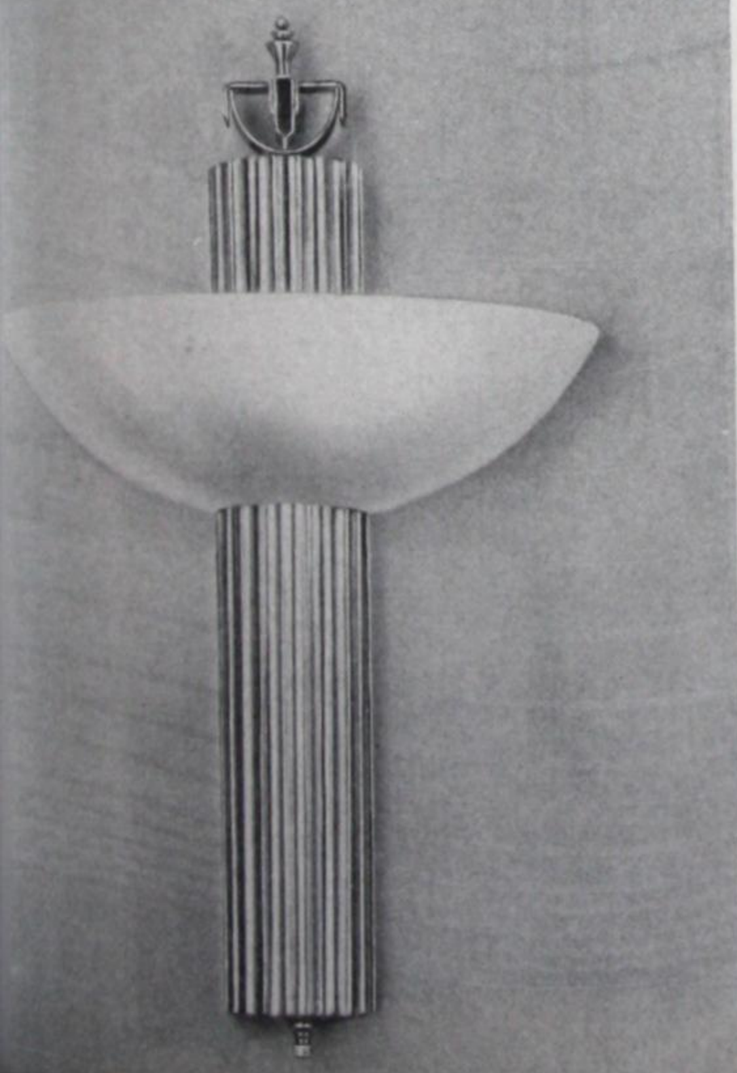
An unique effect is created in this fixture by the polished chromium arrow bisecting a laurel spray etched in burnished silver on the frosted glass. Height 12″, Width 10″, Projection 3½″, $10.00.

At Right

TROY

Truly modern in its finish of polished chromium, in the reeded pattern of the metal and in the imperial leaf design of frosted glass. Height 11½″, Width 3¼″, Projection 3″, $12.00.





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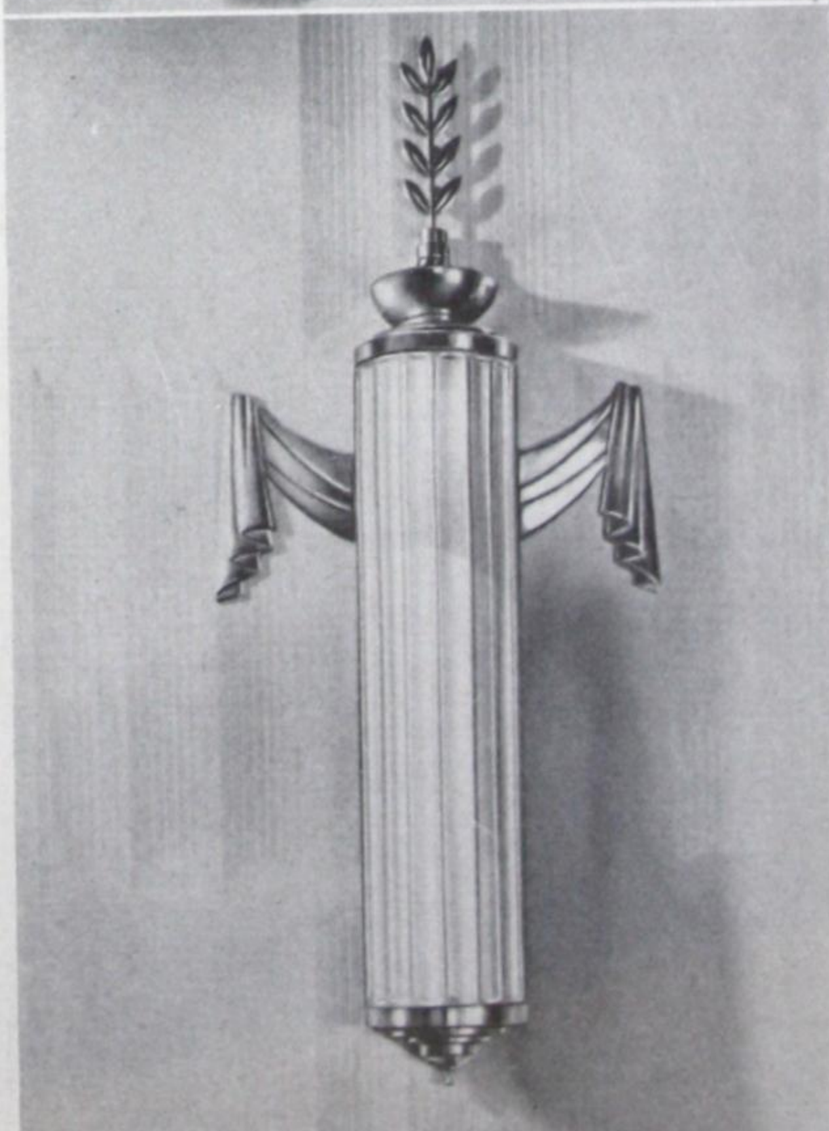
COLONNADE

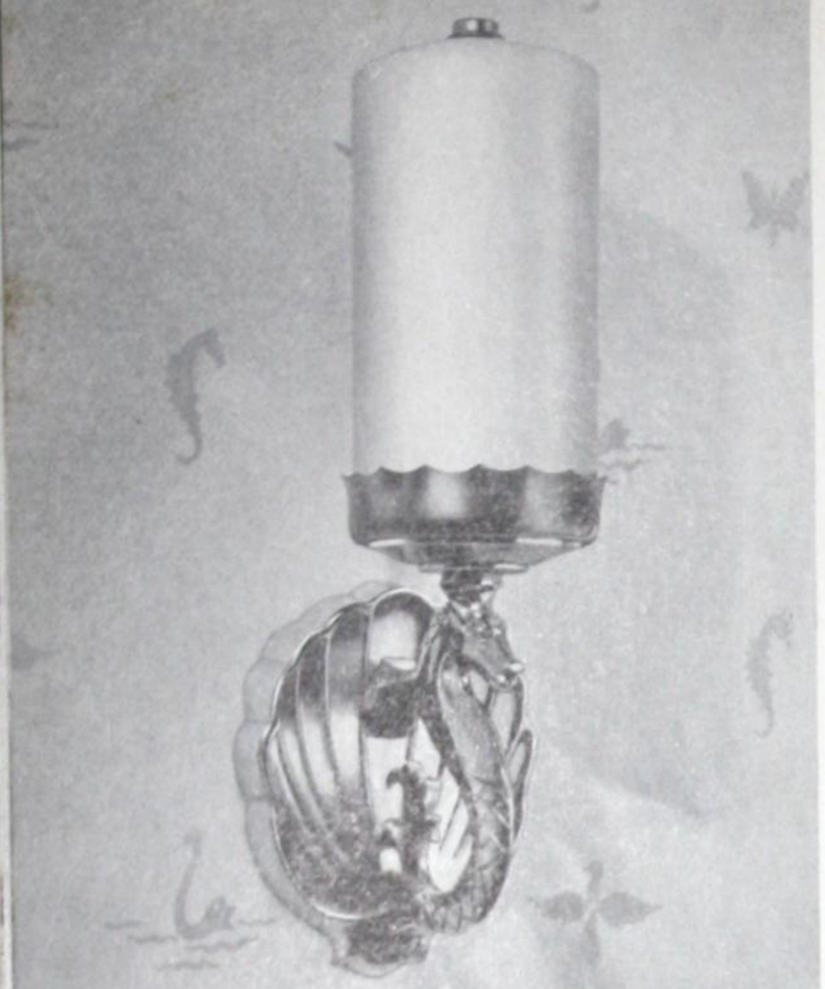
The Colonnade's indirect light is thrown upward from the crystal glass bowl of the polished chromium bracket, the eye-level light being diffused to scientifically shaded softness. Height 16½″, Width 10″, Projection 5½″, $15.00.

At Right

ATHENA

The frosted glass is relieved with clear glass flutings—the swag, urn and laurel decorations are finished in polished chromium. The tubular lamp gives a mellow light. Height 23″, Width 10″, Projection 2½″, $17.50.





At Left

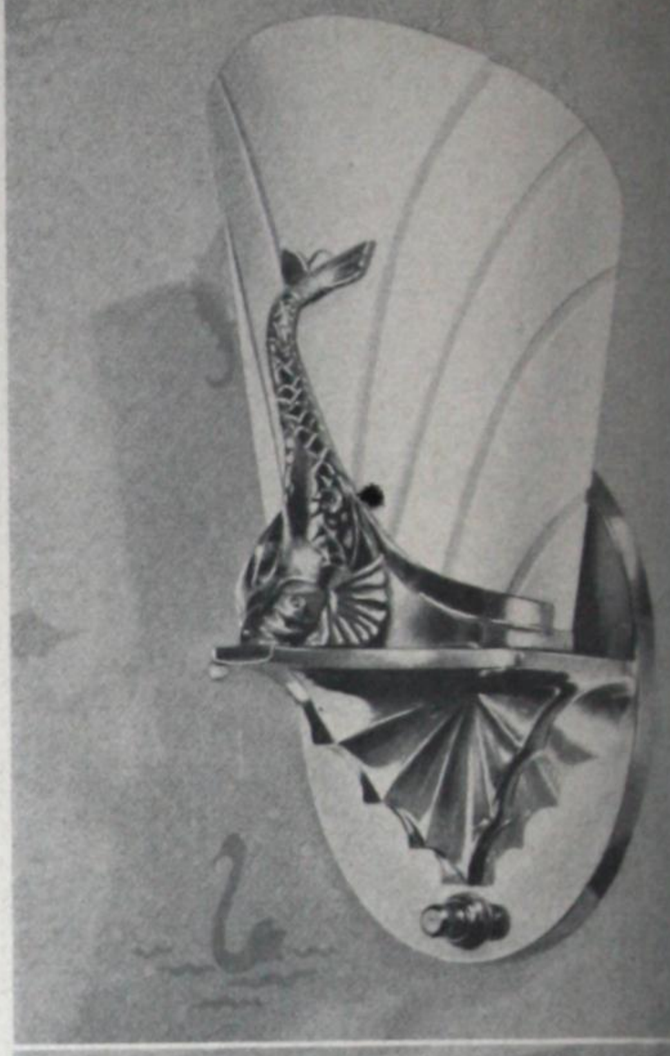
SEA HORSE

This wall light, finished in polished chromium, is altogether in harmony with the fittings of the modern bath and thus perfectly suited to homes of all periods. Height 11″, Width 4½″, Projection 4″, $7.50.

At Right

DOLPHIN

The dolphin, fantastic creature of the sea, gave inspiration for many a maritime design. This bracket with its chromium finish and frosted glass makes an ideal bathroom light. Height 8½″, Width 4½″, Projection 4½″, $7.50.





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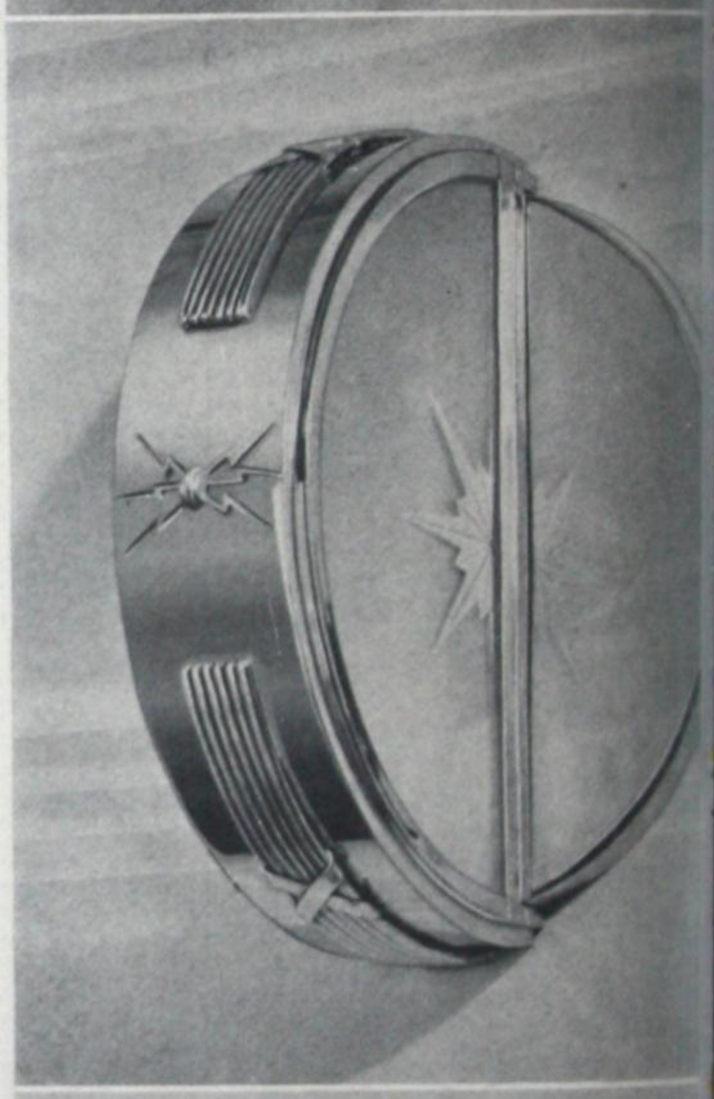
JUPITER

The frosted glass shade, decorated with a reeded band of polished chromium and sprays of burnished silver, slips into the chromium back plate. For bath or dressing room. Height 3½″, Width 3½″, Projection 5½″, $5.50.

At Right

THOR

The light, diffused through frosted glass is reflected by the polished chromium circular back plate insuring correct diffused lighting. Can be hung vertically or horizontally. Diameter 7¼″, Projection 4½″, $15.00.





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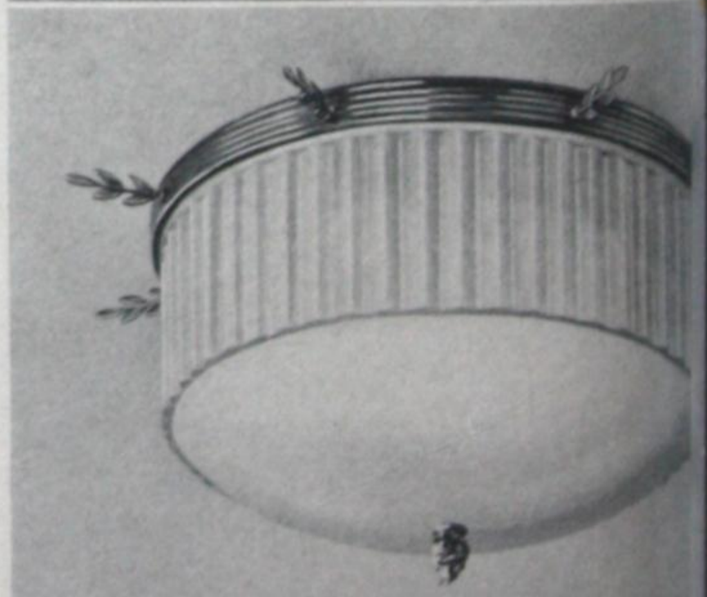
CYPRUS

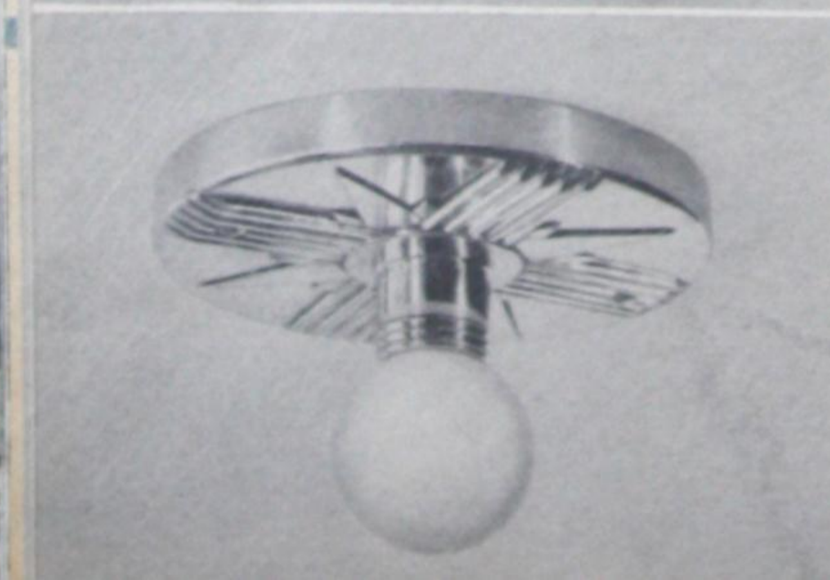
Finished in either polished chromium or antique brass. Height 5½″, Width 11″, Chromium $12.50, Brass $10.00.

At Right

PARIS

Thoroughly modern with polished chromium top-plate, and laurel sprays. Clear and frosted glass. Height 12″, Width 18″, $25.00.



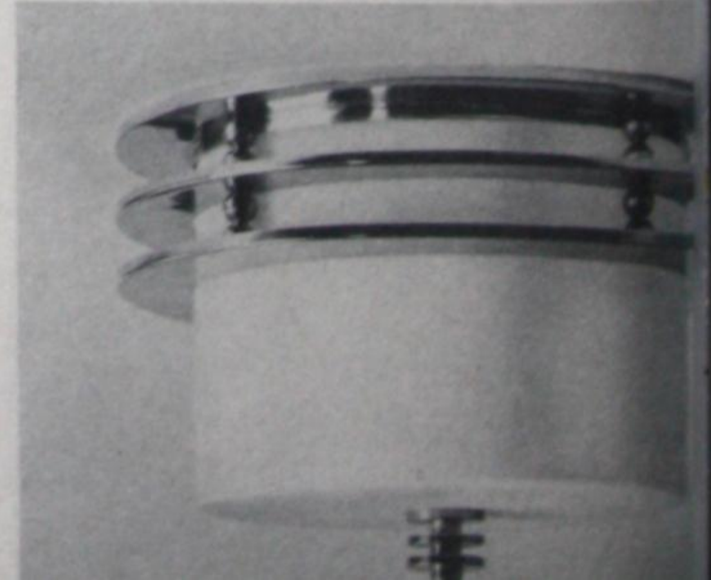


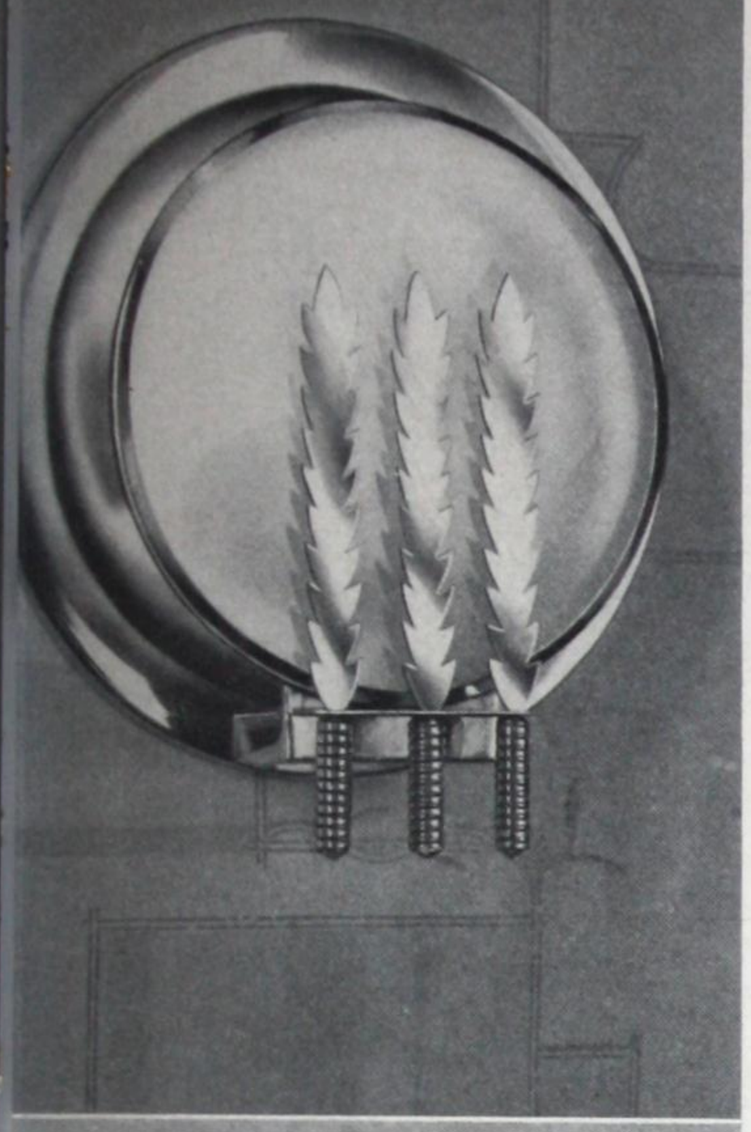
At Left **AUGUSTA**

Can also be used in rooms of other periods. Height ¾″, Width 6½″, Polished Chromium $3.25, Antique Brass $2.75.

At Right **APOLLO**

A modern fixture with polished chromium rings and frosted glass bowl. Height 9″, Width 13″, $22.50.





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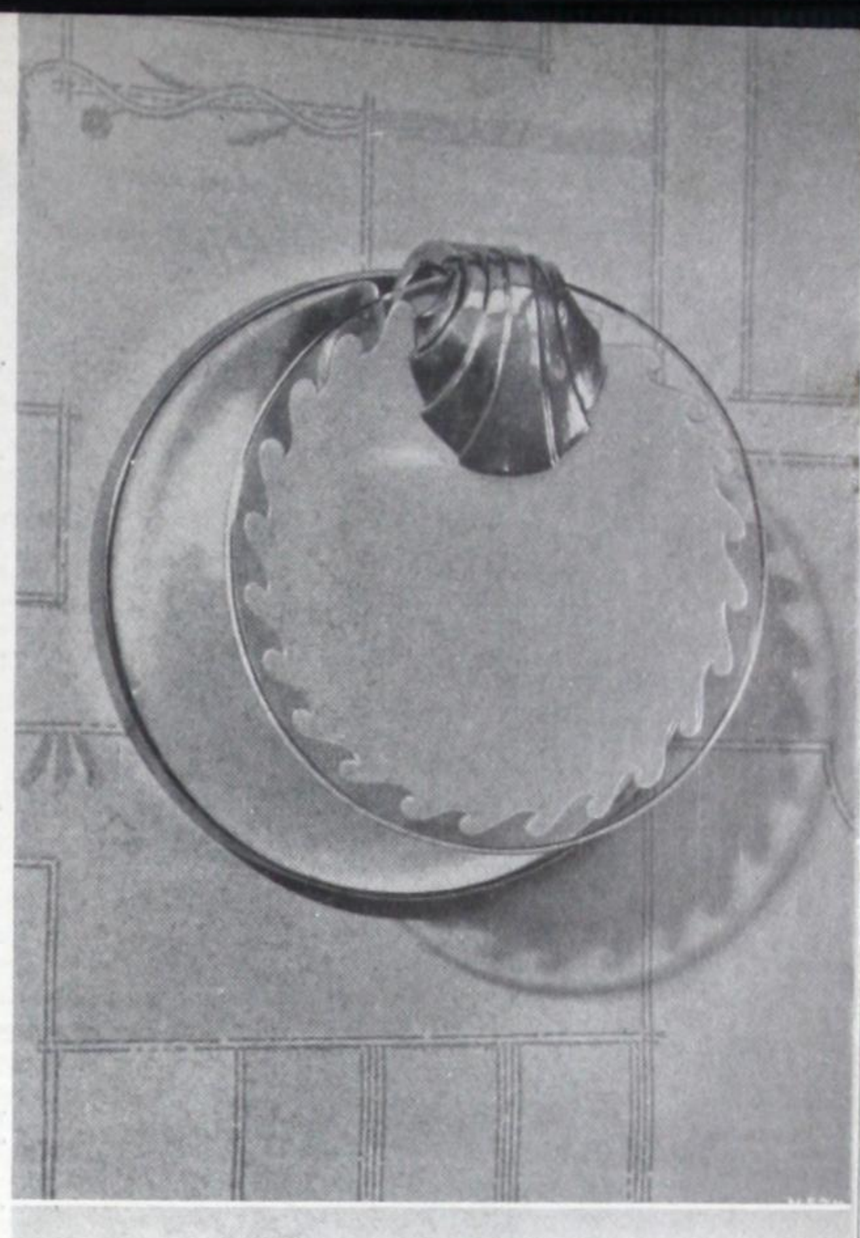
ROMA

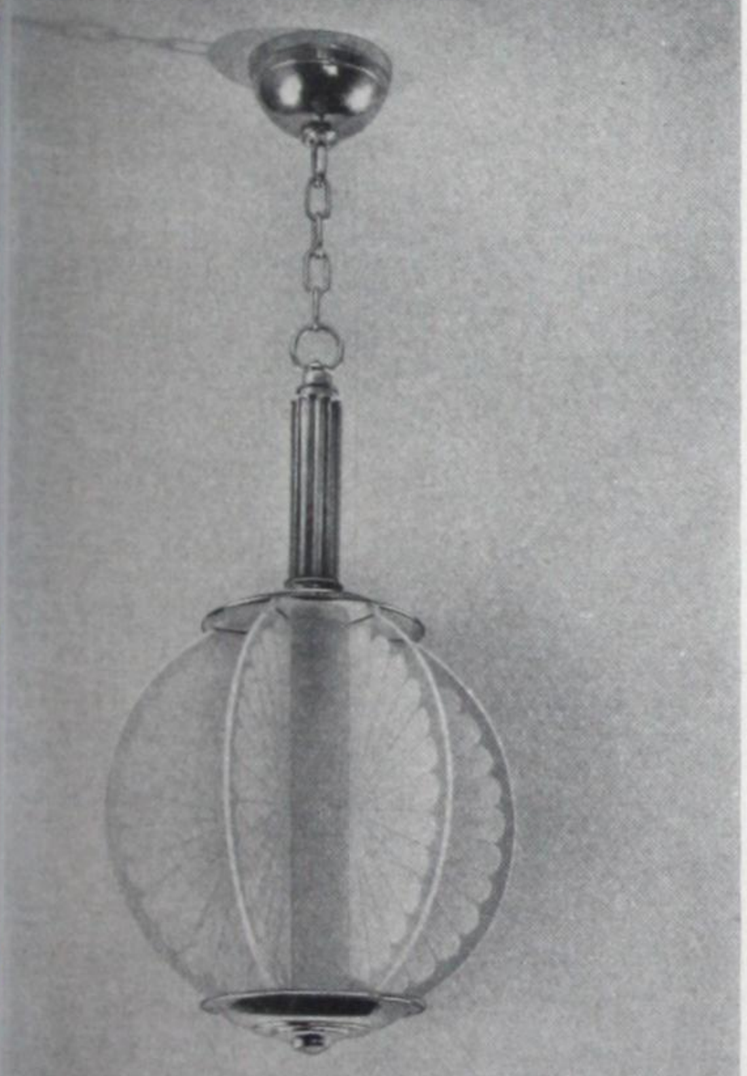
In this bracket, the circular polished chromium reflector plate and convex crystal-glass disc are given classical significance by conventionalized polished chromium laurel leaves. Diameter 8½″, Projection 3½″, $10.00.

At Right

THESSALY

This fixture is particularly adapted for the bath with its polished chromium "shell" and Greek wave design etched on the circular disc of plate glass. Diameter 7″, Projection 3¾″, $12.00.





At Left

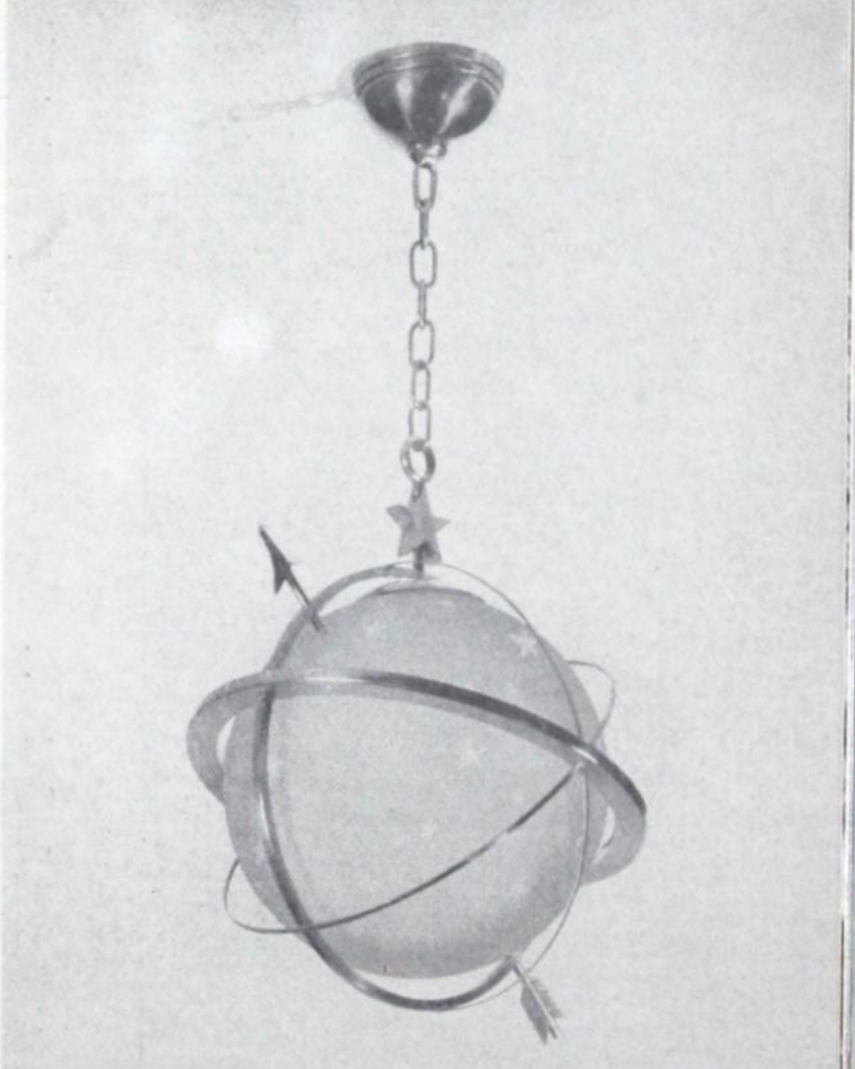
AURORA

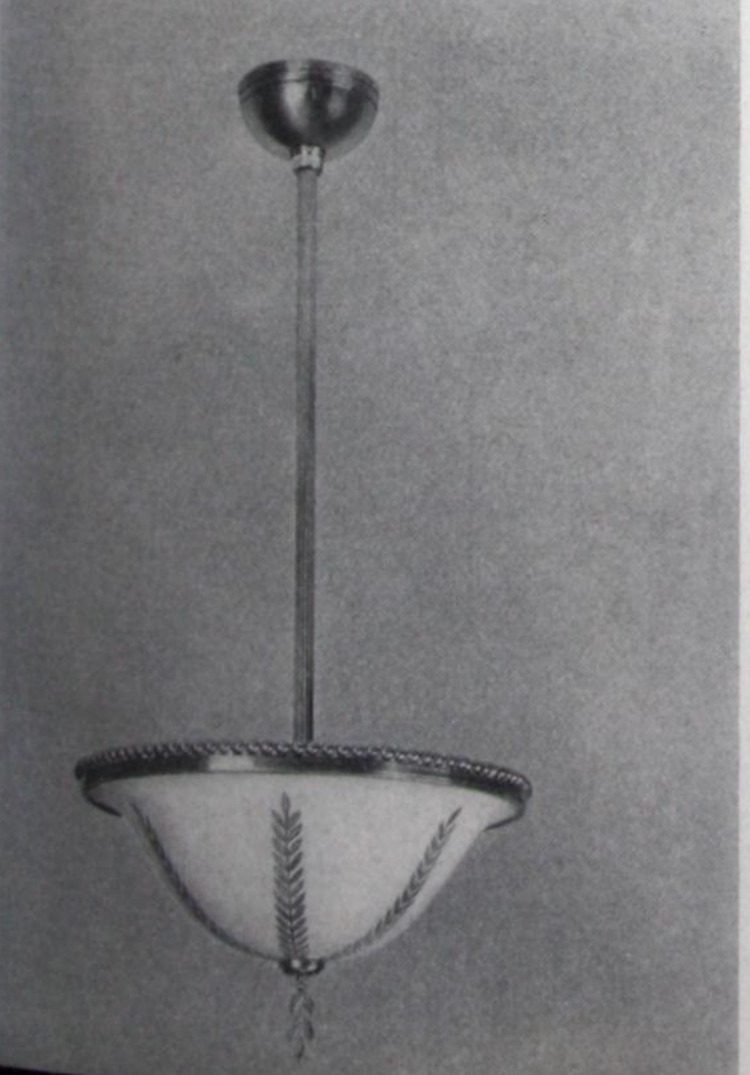
Six half circles of plate glass etched with a modernized version of the lotus design are arranged around a center column of illumination that must be seen to be appreciated. Height 45″, Width 14″, $40.00.

At Right

PLANETARIUM

Finished in antique brass for Empire, Federal or Colonial homes and polished chromium for modern styles. The globe is frosted glass with clear glass stars. Height 45″, Width 13″, Chromium $32.00; Brass $27.50.





At Left

SYBIL

The symmetrical curve of the bowl, the burnished silver laurel sprays, and satin chromium stem — all contribute great charm to this indirect lighting fixture. Height 45″, Width 14″, $20.00.

At Right

ZEUS

This unusual fixture provides indirect light from the glass top of the polished chromium sphere and diffused light from the four frosted glass pockets surrounding its base. Height 45″, Width 16″, $37.50.

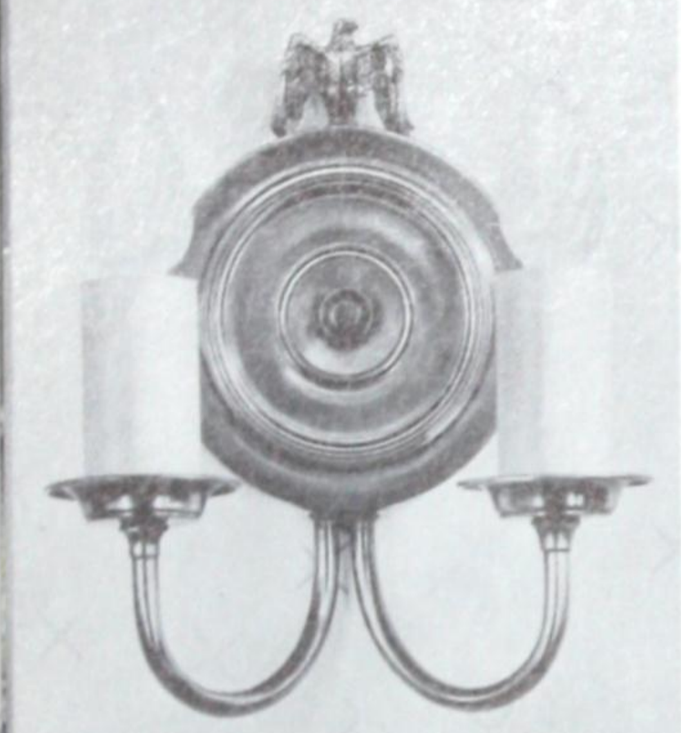


AMERICAN ADAPTATIONS



WOODBURY

Finished in either satin chromium, weathered brass or Colonial brass, this fixture also comes fitted with a clear glass chimney with frosted band decorations. Height 13″, Spread 4½″, Projection 7½″, $6.00.



FRAMINGHAM

This bracket has all the grace and charm of Colonial and Federal design. It is furnished in satin chromium, Colonial brass, or weathered brass. Height 8″, Width 7½″, Projection 3″, $3.25.



BENNINGTON

Finished in satin chromium, Colonial brass or weathered brass and fitted with or without clear glass chimneys with frosted bands. Height 13″, Spread 7″, Projection 6⅛″, $10.50.



At Left

CLIPPER SHIP

Finished in Colonial brass with a dark sea-green ribbed glass back plate. The ship is a copy of the famous old whaling ship "Red Jacket". Made with either one or two lights. Height 13″, Width 7″, Projection 4⅛″, $10.00.

At Right

PORT HOLE SCONCE

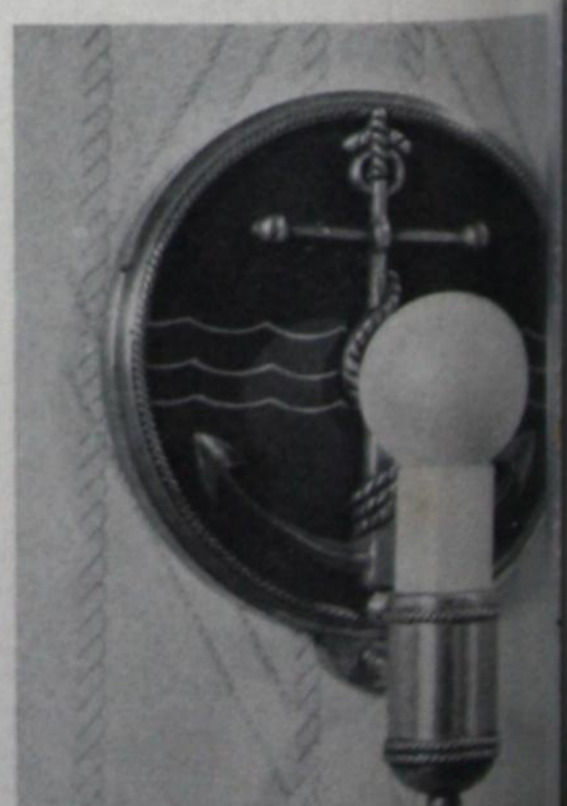
The Colonial brass anchor and rope decorations are modeled against a back plate of dark sea-green glass etched with a wave motif. Also available with two lights. Height 10″, Width 7½″, Projection 3½″, $8.00.



CHASE LIGHTIN

CHASE AMERICAN ADAPTATIONS are f designed for the home that does not require fixtures particular period — yet deserves fixtures of good desi able finish, materials and workmanship — at reasonabl

While exceptionally reasonable in price, Chase A Adaptations are far superior in style, workmanship, fi basic material to ordinary lighting fixtures.





At Left

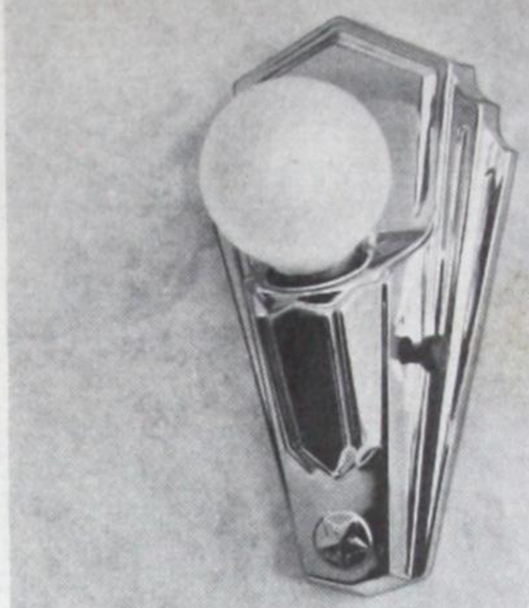
SHELDON

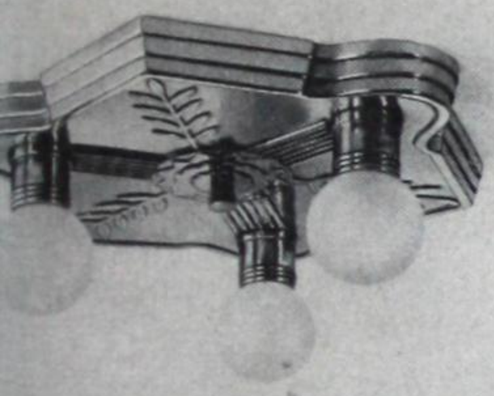
Reflecting the simplicity of Colonial design, it is finished in either satin chromium, weathered or Colonial brass. Made for either dining or living room. Height 18″, Spread 18″, $14.00.

At Right

NEWPORT

Finished in non-tarnishing polished chromium. Also made with a convenience outlet. Height 7½″, Width 4¼″, Projection 2¾″, $2.10.





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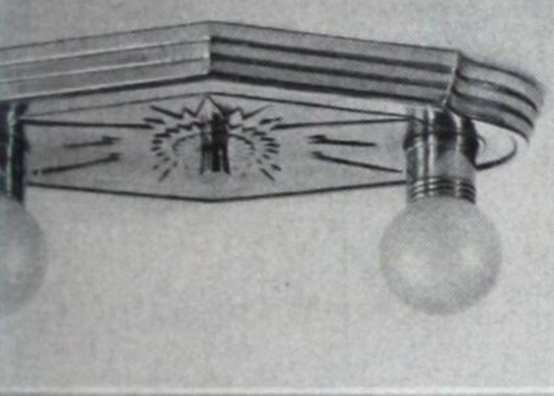
RICHFIELD

This fixture is fitted for a variety of uses by alternative finishes of antique brass, ivory, or polished chromium. Height 2¼″, Width 12″, $6.00.

At Right

DRAKE

Made of lasting Chase brass and finished to suit individual taste, in satin chromium, Colonial brass or weathered brass. Height 10″, Width 10″, $5.50.

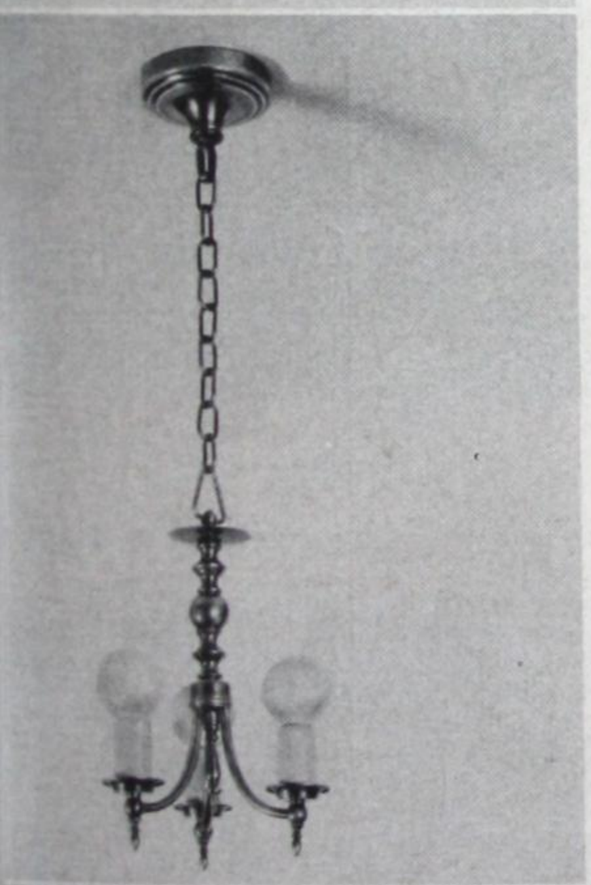


At Left

DARIEN

This modern, close-fitting ceiling fixture is finished either in polished chromium, weathered brass or ivory. Height 2¾″, Width 6¾″, $4.50.





At Left

NORFOLK

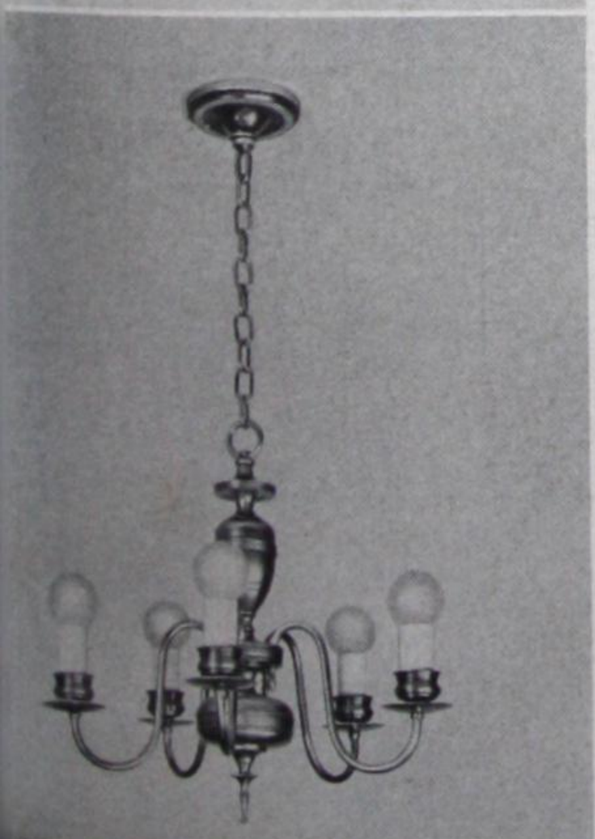
Typical of Chase quality is the durable brass of which it is made and its fine workmanship. Finished in either satin chromium, Colonial brass or weathered brass. Height 45″, Spread 10″, $8.50.

At Right

BRIDGETOWN

Parchment shade furnished in white and silver to harmonize with the satin chromium finished metal or in brown or beige for weathered or antique brass. Height 45″, Diameter of shade 17″, $12.75.





At Left

LENOX

An attractive five-light ceiling fixture for living or dining room. It is finished in satin chromium, Colonial brass or weathered brass. Height 45″, Width 18″, Spread 18″, $17.50.

At Right

ENFIELD

Wrought of Chase brass in satin chromium, Colonial brass or weathered brass finish. Available with or without the glass chimneys. Height 45″, Spread 14″, $16.25.

Sensible Spending That SAVES Mone in That New Home of Yours



YOU'LL SAVE MONEY in years to come if you decide wisely now on the important details in the planning and building of your new home. There are so many questions to be decided — the advantages of so many materials must be carefully weighed and discussed. Before you make a decision on any of these important details investigate the advantages of Chase Brass and Copper Building Products.

Chase Plumbing Pipe and Tube

Your water system is one example of where you *must* spend wisely or sometime you are bound to face the trouble and expense of tearing walls open to get at rust clogged pipes. Chase Brass Pipe or Copper Water Tube will not rust rust is the real danger to a water system.

Chase Copper Roofing Products

Your roof is another important spot that be considered.

When leaders, gutters and flashings ar stalled they should be permanent. Chase Ro products are made of rust-proof copper.

Chase Bronze Screen Cloth

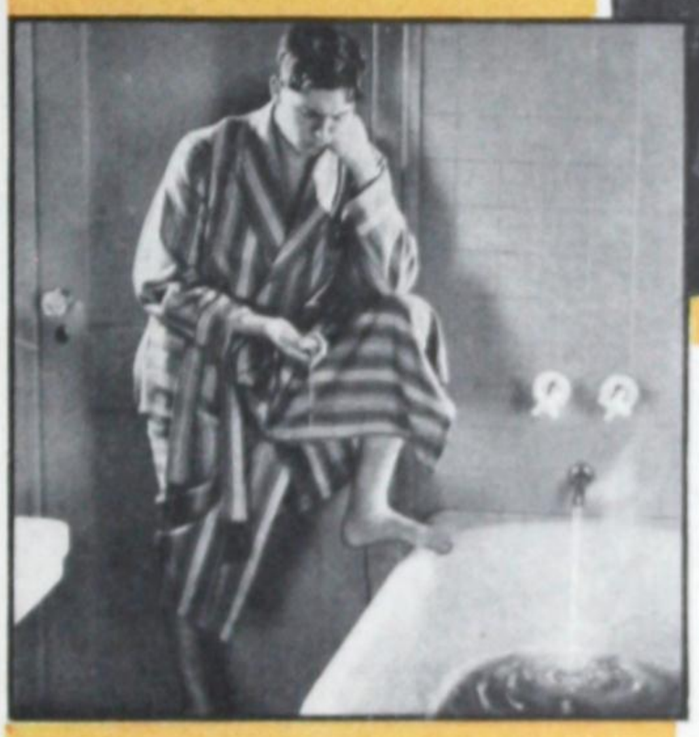
Chase Bronze Screens are an investment i pearance and comfort. They will not rus and need painting or replacing every yea saving in money, with greater comfort and ter appearance.

Chase Rigid Copper Water Tube

FOR PLUMBING AND HEATING LINES

WHY PUT UP WITH THE DISCOMFORTS of rust-clogged pipes in the years to come. An investment in Chase per Tube and Sweat Fittings right at the start is a real ng of money and trouble. A saving of money that you ys spend sooner or later for repairs on rustable pipe. Ask plumber how little more it will cost to install this -proof water system. Special Chase Sweat Fittings, also e from 99.9% pure Chase copper, are furnished for use Chase rigid Copper Tube.





Save the irritation and discomfort of rusty, slow running water in later years by installing Chase Brass or Copper plumbing pipe which gives clean water quickly.

Chase Copper Water Tube Sweat Fittings are tested to stand all kinds of severe con-ons; they will withstand any , pressure or strain of city er service. It would take a of nearly 3,000 pounds to k the tube and fitting joint. tube itself will withstand 25 es the city water pressure hout bursting.

If you want your home to have a water system of pure copper that will not rust or clog and which res you against expensive repairs, insist that your plumber gives you this perfect water system.

CHASE



se rigid Copper Tube and Sweat Fittings make a good-looking job for cellar runs and other exposed work

For Heating Lines

CHASE COPPER TUBE has four unique advantages which recommend it without qualification for heating lines.

1. It can not rust, therefore the water, vapor or steam inside the line is kept clean.
2. The delicately adjusted thermostatic valves and traps in the system will not be rust-clogged out of commission.
3. The heating pipes being rustless, there is no need to install dirt pockets in the steam mains.
4. It is inexpensive and will give as efficient, dependable service as any material known. The return lines on a heating system are apt to rust a lot more than the supply lines. Chase Copper Tube is ideal for such use.

Chase Brass and Copper Pipes

FOR PLUMBING LINES



A lot depends upon the plumbing pipe you choose for your home. Be sure it's Chase.

BE SURE THAT YOUR WATER LINES are in to stay. tearing up of expensive floors and walls due to clogged pipes is avoided for very little more cost, with th of Chase Brass or Copper Pipe. Because brass or co plumbing pipe will not rust and fill up like rustable pi smaller size pipe can be used. This reduces the spread bet the costs of brass and rustable pipes so that it costs only a ¾ of a cent more per building dollar in the beginning saves many times that amount on repairs later on.

To meet varying water conditions in different par the country, Chase makes three different kinds of water p

Chase Red-Brass Pipe

In certain parts of the country the water is so corrosive that a bras with a high copper content is necessary. For such conditions, we r mend Chase Red-Brass pipe as the best kind of brass pipe you can bu

Chase Brass Pipe

Used largely throughout the country to combat rust problems of no good waters. It will give unlimited years of service under normal conditions without repairs.

Chase Copper Pipe

This pure copper pipe is used for special types of corrosive waters s waters of high salinity.

The Chase Laboratory will be glad to advise you, your archit plumber which pipe to use if there is any doubt in their mind.

Chase Flexible Copper Water Tube

FOR HOUSE REPLACEMENTS AND UNDERGROUND SERVICE

For House Replacements

When replacing rust-clogged water pipes, instead of tearing expensive holes in walls, the plu takes a coil of Chase Flexible Copper Water Tube and works it down between the walls, and s it under the flooring. It can be worked from floor to floor in one continuous length.

Replacing with rigid pipe requires the opening up of walls and floors on a large scale. Chase Flexible Copper Tube eliminates this and saves a lot of unnecessary expense.

For Underground Service

From the city water main to the house runs a very important water pipe. Save the expense of ripping up beautiful lawns, shrubs and expensive pavements by installing Chase Flexible Copper Water Tube instead of rustable pipe.

Flexible Copper Tube bends around obstructions and saves the cost of fittings.



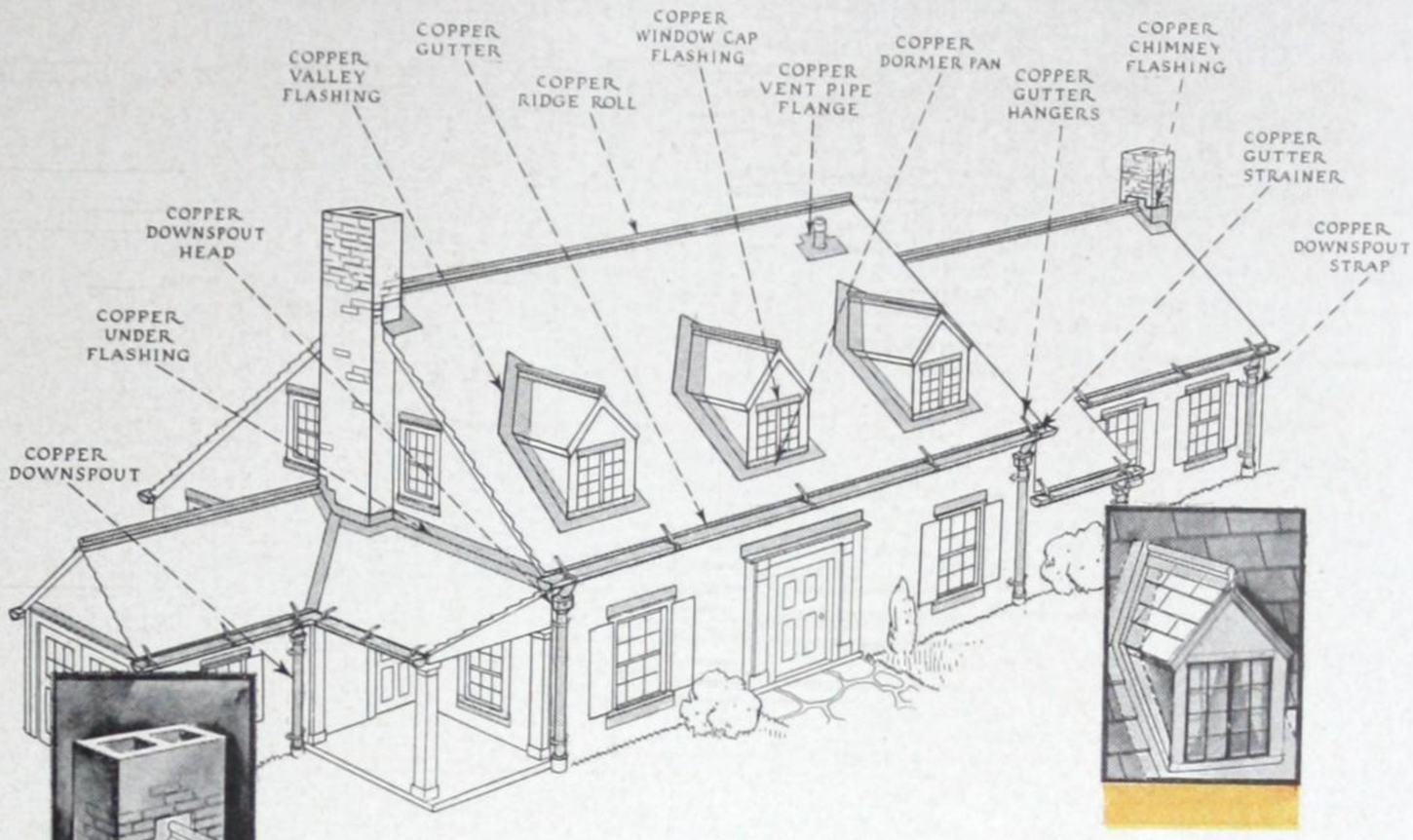
THE OLD WAY



THE NEW WA

Chase Copper Roofing Products

CHASE



The vital spots in your roof that need Chase weather-proof copper.

EATHER-PROOF YOUR NEW HOME with Chase per. When leaders, gutters flashings are installed at the l spots on your roof, they ıld be permanent. It is bet- to pay slightly more for tection against rotted roofs undermined foundations ı to have deterioration creep ınnoticed later on.

ven if rustable metals are ıted and repaired every year ;o, that will only postpone action of rust and their ul- ıte replacement.

Copper never needs painting or repairing and the slightly higher first cost of this non-rustable erial is soon absorbed completely in the service it gives from year to year.

All Chase Roofing Products are 99.9% pure copper. The name Chase, and the familiar Chase e-mark, are stamped on every product and are a sign of a well built home.

Chase Bronze Screen Cloth

AN INVESTMENT IN APPEARANCE AND VALUE

HASE BRONZE INSECT SCREEN CLOTH is always good looking. Through years of constant use it will retain its strength and reflect value and good taste from every window and door. A house ipped with Bronze Screen takes on a charm which everyone ad- es. The coppery-sheen expresses sound judgment. By specifying ıse Bronze Screen Cloth, you are making a permanent investment ppearance and worth.

l not Rust

:re is no iron in Chase Bronze Screen Cloth so it will not rust. s means freedom from repairs and painting with perfect protec- ı year after year.

ong and Firm

ıse Screen Cloth has the strength and stiffness necessary to with- ıd the incessant abuse that screen doors receive. There should no holes with sharp edges to cut and scratch hands and tear :hing when you use Chase Bronze Screen Cloth.

ver needs painting

eens that rust need painting every year to protect them against t. When you use Chase Bronze Screen Cloth the drudgery and ense of repainting every spring is unnecessary.



CHASE BRASS & COPPER CO.

Avoid Rust and Repair Bills

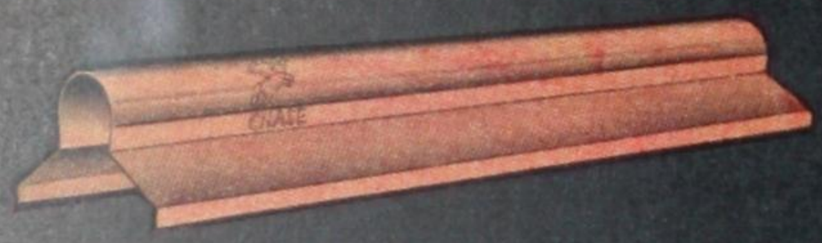
WITH CHASE BRASS AND COPPER AT THE DANGER POINTS











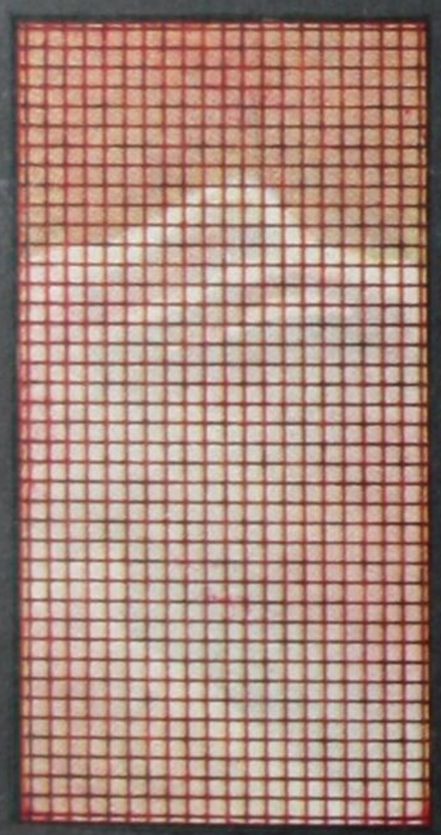




CHASE
BRASS AND COPPER
BUILDING PRODUCTS











CHASE BRASS & COPPER CO.

— INCORPORATED —

Subsidiary of Kennecott Copper Corporation

WATERBURY CONNECTICUT

THE BOOK OF BEAUTIFUL ROOMS



FEATURING SEALEX FLOORS AND WALLS



Dignity and charm are united in this inviting entrance hall. The softly bler ed
pearly gray of the Sealex Wall-Covering contrasts interestingly with the b tk
and white marbleized Sealex Linoleum Floor. Notice the ivory stars and na w
ivory decorative strip — all skilfully "inset" by hand. . . . And, did you se,
in the Sunroom, illustrated on the cover, how cleverly the color scheme is ilit
around the cool, spring-like Sealex Floor? — how the sage green walls nd
yellow cushions echo the greens and tans in the tiles?

CONGOLEUM-NAIRN INC., KEARNY, NEW JER .Y

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Printed in U. S. A.

'HE BOOK OF BEAUTIFUL ROOMS

Are you embarking on that delightful adventure — the building of a new house? Or, if not, have you decided to "do over" several rooms from top to toe or add a long-desired wing? If you are building or remodeling, as soon as you and your architect decide on the floor plan and structural details, give careful consideration to the interior treatment of your walls and floors. Don't leave their decoration to be chosen "later on" or you may miss a splendid opportunity to secure permanent beauty for your floors and walls right at the start.

Scraping, varnishing and renewing of wood surfaces — replastering and painting or papering of walls — are regularly recurring charges in the budget of most home owners. However, the bulk of this redecorating cost for many, many years may be eliminated by adopting the modern idea in floor and wall treatment — beautiful, long-lived Sealex materials.

The use of linoleum in the principal rooms as well as in the service quarters is an important trend in decoration today. At "A Century of Progress Exposition" Sealex Linoleum Floors were chosen for the Good Housekeeping Stran-Steel House and the Armco-Ferro Model Home in 1933. Because of the interest they created, they were used again in these and in other model homes at the Fair in 1934.

Gilbert Rohde, noted New York designer and decorator, who has used Sealex Floors in distinguished interiors, says — "A Linoleum Floor is ideal; it is economical to install and maintain; it is serviceable, for some installations more serviceable than anything else; it provides great freedom in design, and is the most practical method of obtaining definite and permanent color on the floor."

IN A SEALEX LINOLEUM FLOOR beauty and practicability go hand in hand. Skilled designers have created a host of lovely patterns appropriate for any room in your house, as you will see from the photographs on these pages.



BEAUTIFUL FLOORS . . . PRACTICAL . . . PERMANENT

And throughout the long life of a Sealex Floor you need never spend one cent for refinishing. With Sealex, the original stain-proof linoleum, the pattern is inlaid clear through to the back. It cannot wear off and the colors never fade. Unsanitary, dirt-catching cracks are eliminated by the modern method of cementing linoleum right to the floor. An occasional cleaning with a damp cloth or mop keeps the surface spotless. Waxing regularly preserves the finish.

A REVOLUTIONARY NEW IDEA FOR WALLS

Some time ago interior decorators tried installing regular Sealex Linoleum on walls. The effectiveness of these linoleum-covered walls resulted in the development of linoleum wall-covering by Congoleum-Nairn Inc. Sealex Wall-Covering retains all the water-proof, stain-proof quality of Sealex Linoleum for floors. And the decorative possibilities are limitless. There are plain colors in many lovely hues, new textured effects, beautiful marbleized patterns and wood-grain reproductions that rival expensive wood panelling in beauty at a fraction of the cost.

Naturally, Sealex Wall-Covering costs more than temporary finishes like wallpaper or paint. It is a permanent material that will last as long as your house itself, without refinishing expense.

REMODELING AN OLD HOUSE?

Remember, you don't have to start fresh with a new house in order to enjoy the beauty and the money- and labor-saving qualities of Sealex Floors and Walls. Both materials can be installed quickly and easily over scarred old floors or walls, without expensive preparatory work. If you have any redecorating problems, write us for the name of your nearest Sealex dealer. Or ask our Home Decoration Department for suggestions. Address Congoleum-Nairn Inc., Kearny, N. J.

DECORATIVE "DO'S AND DON'T'S"

COLORS: The colors you choose for a room should depend primarily on two things—the light it gets and its size. With a dark room or one with a northern exposure, let light, warm colors predominate—cream, ivory, rose, peach, orange, pinkish gray or orchid. On the other hand, a room that is flooded with sunshine needs cool colors—greens, blues, blue-grays, beige, lavender.

If your room is small, use only light tints on the walls and avoid large patterns on either walls or floors. Strong colors and big designs will make a small room look still smaller. In large rooms, of course, you can "let yourself go" and employ quite vivid colors and decisive patterns.

FLOORS AND WALLS: Make your floor color the foundation of the whole decorative scheme. If you choose a pattern for your floor, let the walls be plain or in some indefinite design. Vice versa, with a plain, richly-toned floor, you can use figured wall decoration with great effect. And, as a general rule, keep your walls lighter in color than your floors and repeat in their decoration some hue that appears on the floor.

CEILINGS: Keep your ceilings still lighter than the walls but not dead white. It unifies the room to tint them a harmonizing, off-white shade or very pale tone of a color used on the floor or on the walls.

WOODWORK: In a small room, keep woodwork inconspicuous by painting it in the prevailing hue used on the walls. However, in a large room, woodwork may serve as a definite contrasting note in the decorative scheme.

FABRICS: If your floor is decidedly patterned, pick out one or two colors from the design for your curtains and upholstery. But if your floor is a solid color, consider harmonizing figured fabrics for these accessories.



Color scheme for a southern exposure



Color scheme for a northern exposure

"AT HOME" IN A COLONIAL ROOM—THIS LINOLEUM FLO

This distinguished dining room illustrates how adaptable Sealex Linoleum Floors are to any period style of decoration. The rich yet subdued expanse of emerald green Sealex Veltone Linoleum on the floor forms an admirable foundation for the scenic wallpaper and fine reproductions of Sheraton and Duncan Phyfe furniture. And once down, this beautiful, stain-proof Sealex Floor will last a life-time without refinishing!

AT THE RIGHT, a variation on the same theme; here the Sealex Linoleum Floor is a deep, golden brown with a wide inner border of jade green.





Decorators have been doing new things with blue of late. Notice, in the bedroom, below, how the predominating clear blue of wallpaper and bedspread is "held down" by the original use of a rich tan Sealex Jaspé Linoleum on the floor and wine red draperies. The mahogany of the furniture is cleverly repeated in the mahogany colored Sealex Linoleum border on the floor.

ON THE LEFT, the same bedroom, decorated for a northern exposure. Sunny yellow wallpaper and the harmonizing brown Sealex Jaspé Floor make the room both cheerful and bright.

A PLEASING NOTE OF ORIGINALITY IN THESE BEDROOMS



Decorated with Sealex materials, kitchen walls and floor
both proof against steam, grease-spots or stains of any ki
A damp cloth or mop cleans any "spill" in a jiffy!

You have a private, indoor sun of your own in these
kitchens with buttercup yellow Sealex Wall-Coveri
Either is a perfect choice for a northern exposure.

In the kitchen on the left a smart contrasting Sealex
pattern in grey, black and ivory has been used on the fl
The Sealex tile design below, is in tune with the yellow
color but pitched in a lower key, with blended cream
green, enlivened with touches of red and yellow.

STAIN-PROOF SEALEX ON BOTH FLOOR AND WALL



D OR NEW—BEAUTIFY YOUR KITCHEN WITH SEALEX

ember, you don't have to have a brand-new kitchen to y Sealex Walls and Floors. Both materials go on right your old floors and walls!

ne two kitchens on this page are excellent for sunny ex- ures. The beryl green Sealex Wall-Covering is refresh- y cool on the hottest day. These kitchens have gaiety, thanks to the cheerful-looking Sealex Floors.

OCCASIONAL LIGHT WAXING—Sealex Lino- n Floors are practically ageless in their beauty and ser- , if you give them an occasional light waxing. We have ected a special Sealex Self-Polishing Wax which is al for the purpose. You simply smooth it on with a cloth leave it for half an hour to polish itself. It dries with oft gloss and improves under normal traffic.



CONGOLEUM-NAIRN INC.

DESIGN YOUR OWN FLOORS AND WALLS!

Any pet idea or decorative scheme of your own can be incorporated in a specially cut Sealex Linoleum Floor—or in walls with Sealex Wall-Covering.

Can you imagine any other one thing that could add so much gaiety to home-life as a game-room, like the one above? Every member of the family can contribute his or her favorite indoor amusement to the novel designs on floor and walls.

The spirited game-room above employed Sealex Wall-Covering in wood-grain effects—"Light Pine" with "American Walnut" in the interesting curved corner. The floor is a grass-green Sealex Veltone. The game markers, checker-board, sailboats and horizontal white strips are all hand-cut insets of Sealex Linoleum.

Below, the game-room worked out in yellow, grey, black and white Sealex and furnishings. You can develop almost any color scheme you want with Sealex materials.



CONGOLEUM-NAIRN INC.



Sealex marbleized effects and lovely tile patterns rival actual marble and the most expensive tiles in beauty—at a fraction of the cost—as you will see from the two Sealex-decorated bathrooms on this page. Bathrooms that "look like a million" yet cost a very moderate sum.

More than that, you can have any original decorative design you like "inset" in contrasting Sealex patterns. Color schemes can be carried out with complete harmony of texture on both walls and floor. Then, Sealex Linoleum nd Sealex Wall-Covering are so practical in a bathroom. They're water-proof and fade-proof. The colors e inlaid clear through to the backing and can't wear off. Neither steam nor spilled things will stain them. ney last for years and never cost you one cent for refinishing.

Whether you have an old bathroom to modernize or a new one to plan for, you can't do better than select ese modern materials for both walls and floor! Study the Sealex patterns at your nearest dealer's.

BATHROOMS THAT "LOOK LIKE A MILLION"



oth the color scheme and ne treatment of the bath ilcove in this bathroom ire smart and individual. And what a jaunty note is added by the spirited sea horse set in the Sealex floor. He'll set anyone whistling merrily on a grey morning!

Of course a child's room should be gay with color—but everything in it must be sanitary and serviceable to the last degree, too—easily washable, stain-proof and able to stand hard knocks.

The color possibilities with Sealex materials are unlimited and any decorative inset you like—in harmony with the spirit of the room—can be specially cut for both walls and floor. Then, too, spilled foods, liquids—even ink—can be washed off with a damp cloth or mop in a jiffy. There is special protection in the fact that linoxyn, one ingredient of Sealex Linoleum, actually possesses germicidal properties.

If there are children in your family, consider installing a colorful, practical Sealex-decorated nursery or playroom.



This one-piece cove base and border treatment where floor meets wall makes thorough cleaning quick and easy. No square-cut joint between walls and floor where dirt or germs can ever gather.

A great dec
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this amusing
cut entirel
linoleum, a
the flo

APPROPRIATE LINSIGNIA SET THE SPIRIT OF A ROOM



CLASSICA

Here are five sprightly designs—Sealex Linsignia—cut from Sealex Linoleum. Wouldn't "Sandy," the Scotch golfer, "go big" in Dad's den or the family game-room? And imagine Jumbo on a nursery floor! Or visualize the classic wreath and crossed arrows in a fine entrance hall. . . . But you are not limited to these Linsignia—you can have any designs you want cut to order. Write our Home Decoration Department.



SHIP OF DREAMS



SANDY



TEA-SET



JUMBO

SEALEX BORDERS ADD INDIVIDUALITY TO ANY FLOOR

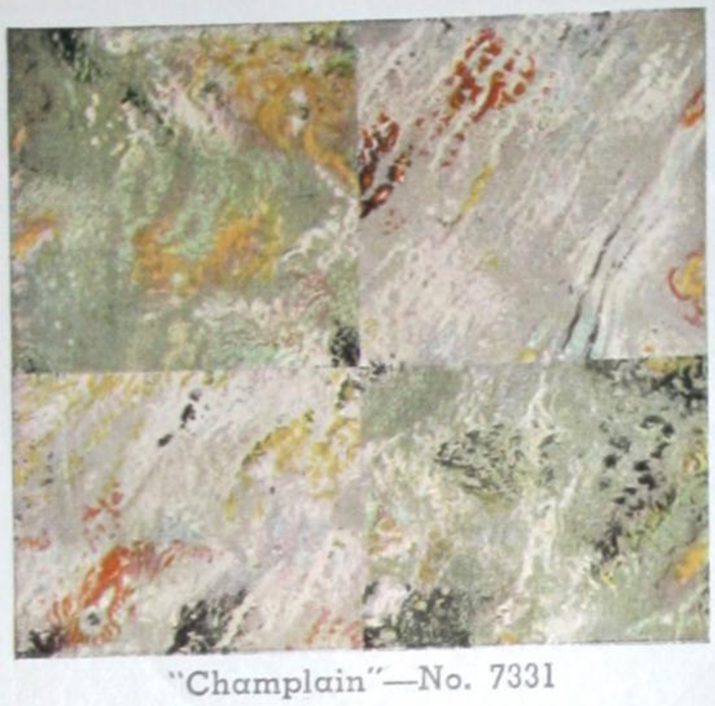




A carefully chosen border in a harmonizing or contrasting color always gives a smartly tailored finish to a Sealex Floor. And there is considerable leeway for individuality in border treatments. Not only is there the main border color and width to consider but also a variety of different effects may be created with narrow, decorative strips in varied colors. Border treatments add very little to the cost of a floor. Plan them when you choose your Sealex Floors for the various rooms in your home.

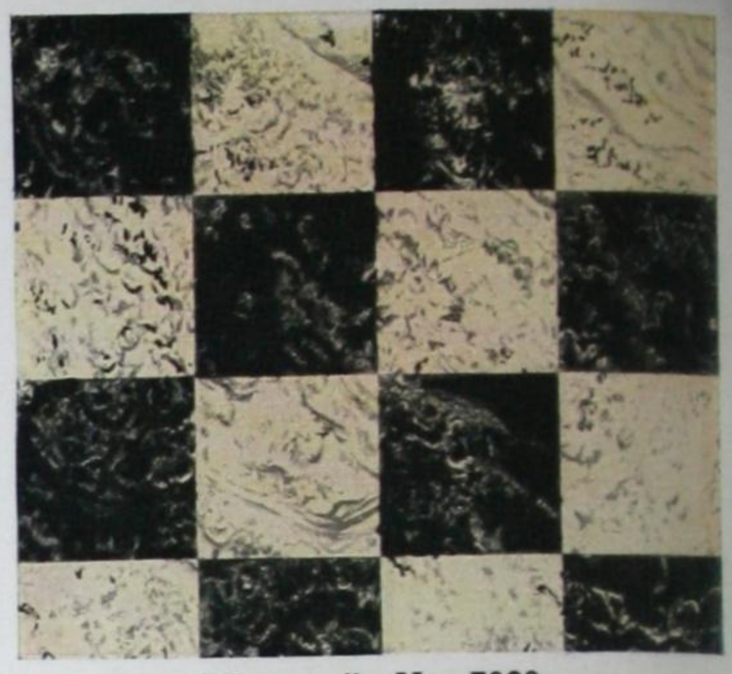
CONGOLEUM-NAIRN INC.

SEALEX LINOLEUMS—INTERESTING TILE TREATMENTS



"Champlain"—No. 7331

Just a few "samples" to indicate the wide variety of designs available in Sealex Linoleum. Here are tile patterns, Sealex Veltones, Jaspé patterns and solid colors. Imagine in turn each type of design on a floor and you'll realize the immense versatility of modern floors of Sealex Linoleum.



"Nassau"—No. 7303



"Salon"—No. 7347



"Croydon"—No. 6000



"Etruscan"—No. 7325

SEALEX VELTONE LINOLEUMS IN RICHLY BLENDED COLOR



"Riviera"
No. 6953



"Vulcan"
No. 6959



"Oakbrown"
No. 6973



"Paisleygray"
No. 6974



"Tibet"
No. 6970



"Evergreen"
No. 6972

SEALEX PLAIN COLORED AND VEINED JASPÉ LINOLEUMS



"Pacific Blue"
No. 1114



"Craft Brown"
No. 1000



"Terra Cotta"
No. 1002



"Tan"
No. 1253



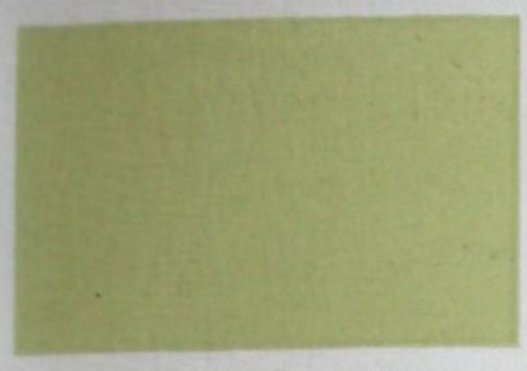
"Dark Green"
No. 1256



"Brown"
No. 1254

FOR BACKGROUNDS OF GREAT CHARM—SEALEX WALL-COVERING

In most cases the printed reproductions do not do justice to the delicately veined colors of actual Sealex Wall-Covering. You must see them on the walls of a room to appreciate fully their exclusive beauty. Still they do give a fair idea of the lovely effects you can get with this permanently beautiful, modern wall treatment. There are three principal design-styles to choose from—marbleized effects, wood-grain reproductions and solid colors. All are shown in this book in direct color photographs of actual rooms.



"White"—No. 1113



"Citron Green"—No. 1124



"Yellow"—No. 1110



"Orange"—No. 1111



"Garnet"—No. 7965



"Sardonyx"—No. 7963



"Zircon"—No. 7972



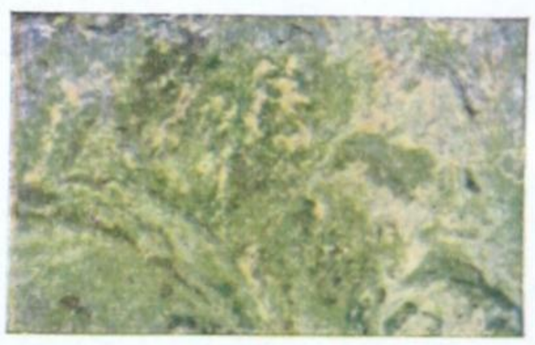
"Black Onyx"—No. 7959



"Rose Beryl"—No. 6960



"Green Beryl"—No. 7971



"Burmah Jade"—No. 6957



"Light Pine"—No. 7981



"Green Onyx"—No. 7985



"Travertine"—No. 7986



"Carnelian"—No. 7958

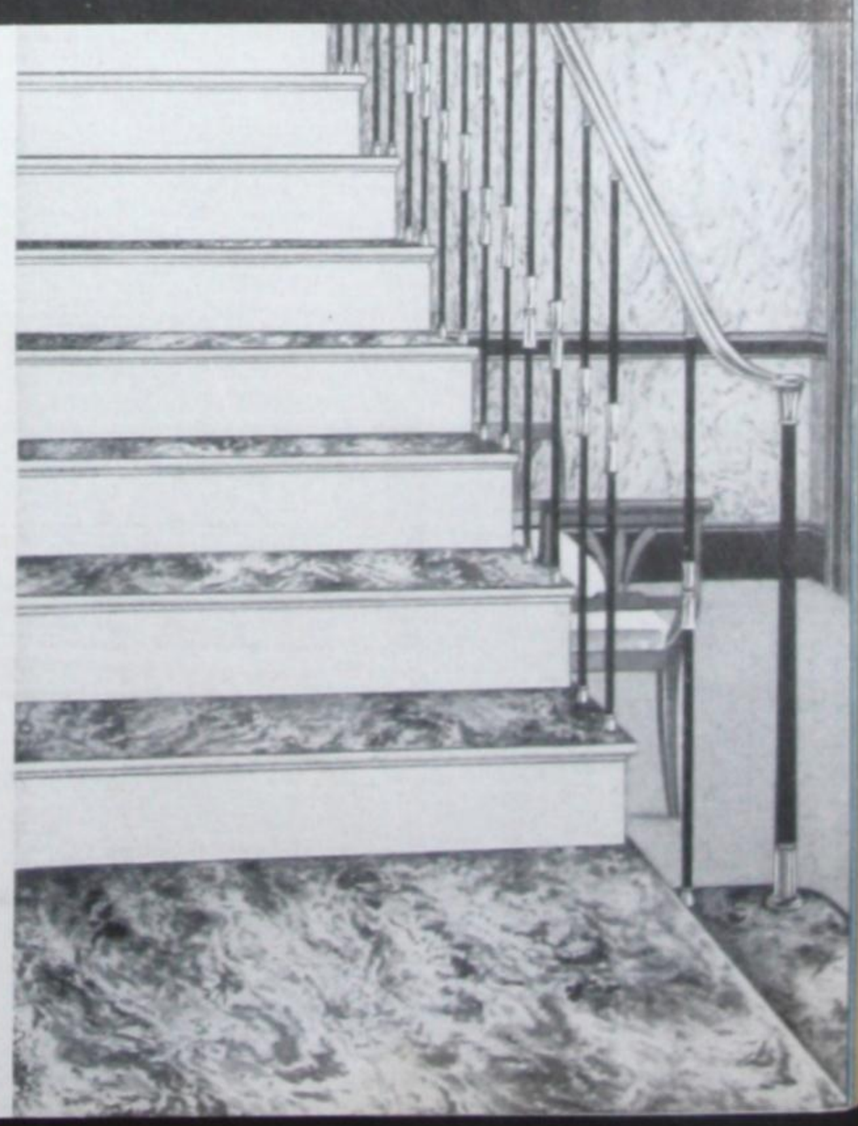


"American Walnut"—No. 7982

LINOLEUM FOR MANY OTHER HOME USES



Have you ever thought of linoleum for kitchen table tops and on kitchen cabinet counters and shelves? It makes a perfect, sanitary working surface. Then, linoleum on closet floors and shelves is smart and attractive and lasts almost forever. Another ideal use is on stair-treads and landings. Count up the "small places" where linoleum can help you make your home attractive!



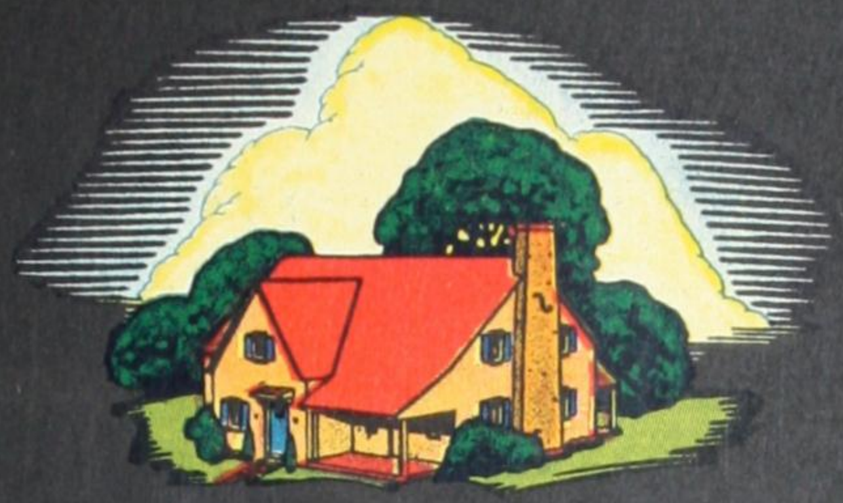


The beauty of time-mellowed wood floors and panelled wo be achieved today with modern, easy-to-clean Sealex ma at a fraction of the cost of fine woods. Notice, below, the r graining in the "Light Pine" wall panels of Sealex Wall-Co The floor is a wide Colonial Plank effect in Sealex Lin Realistic even to the "pegs" and "butterfly dowels."

In the photograph on the left, Sealex Wall-Coverin used in a rich American Walnut effect. Instead of a "plan tern, the Sealex Floor is an all-over blended oak brown wit mahogany border, outlined with narrow ivory strips.

Write our Home Decoration Department for advice on any decorating problem

CONGOLEUM-NAIRN INC., KEARNY, NEW JERSEY



FOR THE

HOME

OF

TODAY

CRANE

PLUMBING AND HEATING

ATER SYSTEMS, WATER HEATERS, WATER SOFTENERS

AN INVITATION

To simplify the selection of plumbing and heating products for your new home Crane Co. cordially invites you to visit its exhibit rooms. Here you will find the latest fixtures, attractively displayed, and representatives in attendance who will be pleased to advise you. Ask your architect or your contractor to take you to the nearest Crane exhibit room in any of the following cities:

ALABAMA
BIRMINGHAM ..... 2000 Fifth Ave.
MOBILE ..... 300 N. Royal St.

ARIZONA
PHOENIX ..... 233 S. First Ave.
TUCSON ..... 35 Toole Ave.

ARKANSAS
FT. SMITH ..... 521 S. Ninth St.
LITTLE ROCK ..... 515 E. Second St.

CALIFORNIA
HOLLYWOOD ..... 950 N. Highland Ave.
LONG BEACH ..... 824 W. Anaheim St.
LOS ANGELES ..... 321 E. Third St.
OAKLAND ..... 346 Ninth St.
PASADENA ..... 321 South Broadway
SACRAMENTO ..... 1227 Front St.
SAN BERNARDINO ..... 110 South "E" St.
SAN DIEGO ..... 1138 India St.
SAN FRANCISCO ..... 61 New Montgomery St.
SANTA ANA ..... 2nd and Main Sts.
SANTA BARBARA ..... 136 State St.

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DENVER (Crane-O'Fallon Co.) .. 1631 Fifteenth St.
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BRIDGEPORT ..... 302 John St.
HARTFORD ..... 710 Windsor St.
NEW HAVEN ..... 365 Orchard St.

DISTRICT OF COLUMBIA
WASHINGTON ..... 1018 Connecticut Ave.

FLORIDA
JACKSONVILLE ..... 1007 W. Bay St.
MIAMI ..... 85 N. W. Tenth St.
MIAMI BEACH ..... 1030 Lincoln Road
TAMPA ..... 1405 Twiggs St.
WEST PALM BEACH ..... 601 Lantana Ave.

GEORGIA
ATLANTA ..... Washington St. Viaduct
MACON ..... 500 Broadway
SAVANNAH ..... 14 W. Broad St.

IDAHO
POCATELLO ..... 756 S. First Ave.

ILLINOIS
AURORA ..... 544 S. Lake St.
CHICAGO ..... 836 S. Michigan Ave.
EVANSTON ..... 1224 Emerson St.
ROCKFORD ..... 800 S. Main St.
SPRINGFIELD ..... 921 E. Monroe St.
WAUKEGAN ..... 1219 Glen Rock Ave.

INDIANA
EAST CHICAGO ..... 1004 Chicago Ave.
EVANSVILLE ..... 118 S. E. Eighth St.
INDIANAPOLIS ..... 113 E. Vermont St.
MUNCIE ..... 610 S. Jefferson St.
SOUTH BEND ..... 1616 S. Franklin St.
TERRE HAUTE ..... 209 Ninth St.

IOWA
DAVENPORT ..... 217 E. Second St.
MASON CITY ..... 19 Eighth St., S. E.
SIOUX CITY ..... 6th and Nebraska Sts.

KANSAS
WICHITA ..... 624 E. First St.

KENTUCKY
LEXINGTON ..... 544 W. Main St.

LOUISIANA
NEW ORLEANS ..... 146 Baronne St.
SHREVEPORT ..... 1320 Winston St.

MAINE
PORTLAND ..... 70 St. John St.

MARYLAND
BALTIMORE ..... 17 W. Franklin St.

MASSACHUSETTS
BOSTON ..... 48 W. First St., South Boston
SPRINGFIELD ..... 60 Cypress St.
WORCESTER ..... 45 Green St.

MICHIGAN
DETROIT ..... 4498 Cass Ave.
FLINT ..... 155 Lewis St.
GRAND RAPIDS ..... 56 Grandville Ave., S. W.
JACKSON ..... 409 Hupp Ave.

MINNESOTA
DULUTH ..... 102 Lake Ave., S.
MANKATO ..... 510 S. Pike St.
MINNEAPOLIS ..... 1628 Harmon Pl.
ST. PAUL ..... 356 Broadway

MISSISSIPPI
JACKSON ..... 176 N. Gallatin St.

MISSOURI
KANSAS CITY ..... 1532 Grand Ave.
ST. LOUIS ..... 3618 Washington Ave.

MONTANA
BILLINGS ..... 30th St. and First Ave., S.
GREAT FALLS ..... Great Northern Ry. Yards

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GRAND ISLAND ..... 115 E. Front St.
LINCOLN ..... 317 S. Ninth St.
OMAHA ..... 309 S. Nineteenth St.

NEVADA
RENO ..... 401 E. Fourth St.

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TRENTON ..... 50 Escher St.

NEW MEXICO
ALBUQUERQUE (Crane-O'Fallon Co.) ..... 612 N. First St.

NEW YORK
ALBANY ..... North Broadway
BINGHAMTON ..... 21 Washington St.
BUFFALO ..... 294 Delaware Ave.
HEMPSTEAD ..... 209 Main St.
NEW YORK ..... 19 W. 44th St.
ROCHESTER ..... 200 South Ave.
SYRACUSE ..... 760 W. Genesee St.
UTICA ..... 326 Broad St.
WHITE PLAINS ..... 41 Hamilton Ave.

NORTH CAROLINA
ASHEVILLE ..... 34 Battery
CHARLOTTE ..... 1307 W. More

NORTH DAKOTA
FARGO ..... 636 Northern Pac

OHIO
CANTON ..... 210 Piedmont Av
CINCINNATI ..... 824 B
CLEVELAND ..... 6215 Carne
COLUMBUS ..... 67 N. F
LIMA ..... 207 S. Cen

OKLAHOMA
MUSKOGEE ..... 302 Comm
OKLAHOMA CITY ..... 705 W.
TULSA ..... 623 E.

OREGON
PORTLAND ..... 1103 S. W.

PENNSYLVANIA
PHILADELPHIA ..... 1301 L
PITTSBURGH ..... Gulf

RHODE ISLAND
PROVIDENCE ..... 245 W. Exc

SOUTH CAROLINA
GREENVILLE ..... 218 Pen

SOUTH DAKOTA
ABERDEEN ..... 324 Railroad A
SIOUX FALLS ..... 326 E. I

TENNESSEE
CHATTANOOGA ..... 1317 Ch
KNOXVILLE ..... 523 W. Jac
MEMPHIS ..... 254 C
NASHVILLE ..... 181 Thir

TEXAS
BEAUMONT 820
CORPUS CHRISTI ..... 1212 C
DALLAS 814
EL PASO (Crane-O'Fallon Co.) 160
HARLINGEN ..... 201 We
HOUSTON ..... 2205 McK
SAN ANTONIO ..... 1200 E. H

UTAH
OGDEN ..... Twentieth St. and
SALT LAKE CITY ..... 307 W.

VIRGINIA
NORFOLK ..... 2 E. Twenty
RICHMOND ..... 1223 W

WASHINGTON
SEATTLE ..... 419 Seco
SPOKANE 126
TACOMA ..... 1209 So

WEST VIRGINIA
CHARLESTON 50

WISCONSIN
MADISON ..... 645 Wi
MILWAUKEE ..... 225 W. G
OSHKOSH 37

WYOMING
CASPER (Crane-O'Fallon Co.) .... 802 E

CRANE MATERIALS
Cost No More

Why accept less in quality and beauty?

SO widespread is the preference for Crane plumbing fixtures, so universal is the reputation of Crane quality, there is an impression that a Crane installation is expensive. That is not so. Style for style, material for material, grade for grade, Crane fixtures and fittings cost no more than others.

Frequently, in fact, a Crane bathroom or kitchen costs less than others. The exact machining of the fittings and the precise engineering of all materials facilitate the installation. In the long run, there is no question about greater economy. Dependable in design, engineering, and materials, Crane fixtures and fittings serve longer and save more.

Regardless of what make of plumbing you have installed, in the end you will pay as much as Crane quality and beauty and convenience would cost you . . . you might as well get them.

CRANE

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CHICAGO

Branches and Sales Offices in 160 Cities

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CRANE

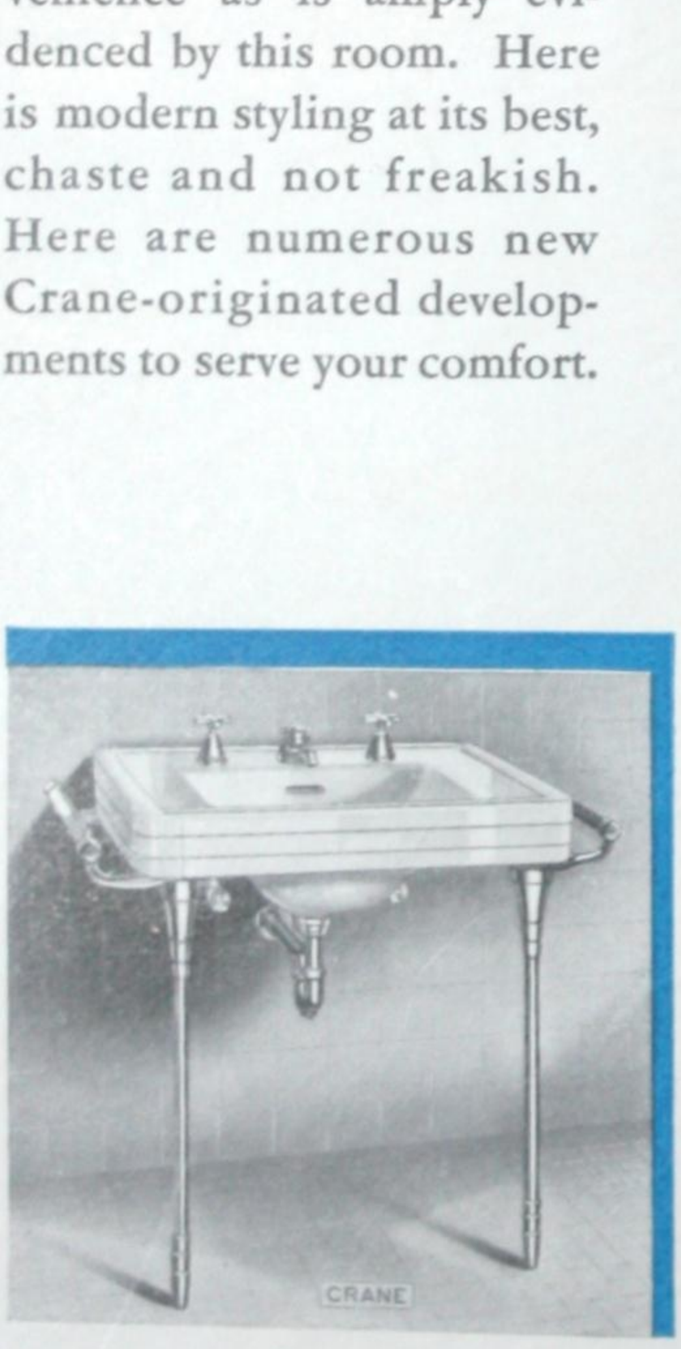
THE MARSHALL GROUP

styled for luxury and distinction

Initiator of the trend toward more beautiful bathrooms, Crane is the leader in contributing charm and convenience as is amply evidenced by this room. Here is modern styling at its best, chaste and not freakish. Here are numerous new Crane-originated developments to serve your comfort.



The fixtures in orchid pink (No. 400) set the color motif for this room. The border in the tile walls and the window and the shower curtains echo the same hue. The floor in black and raisin contrasts effectively.



C 136-L11T CORWITH *vitreous china lavatory.* A beautiful fixture of today. Notice the large bowl and the chromium legs from which handy towel bars curve outward. 27″x22″, 30″x24″, 33″x24″, and 36″x24″.

C 3205-LC51 MARSHALL *porcelain enameled cast-iron corner bath.* Spacious, and with a broad flat bottom, which precludes slipping, and equipped with hand-hold bars, it is an ideal tub for a shower. The shower shown has a mixing valve which blends water to any desired temperature. 5½′ long, 36¼″ wide.



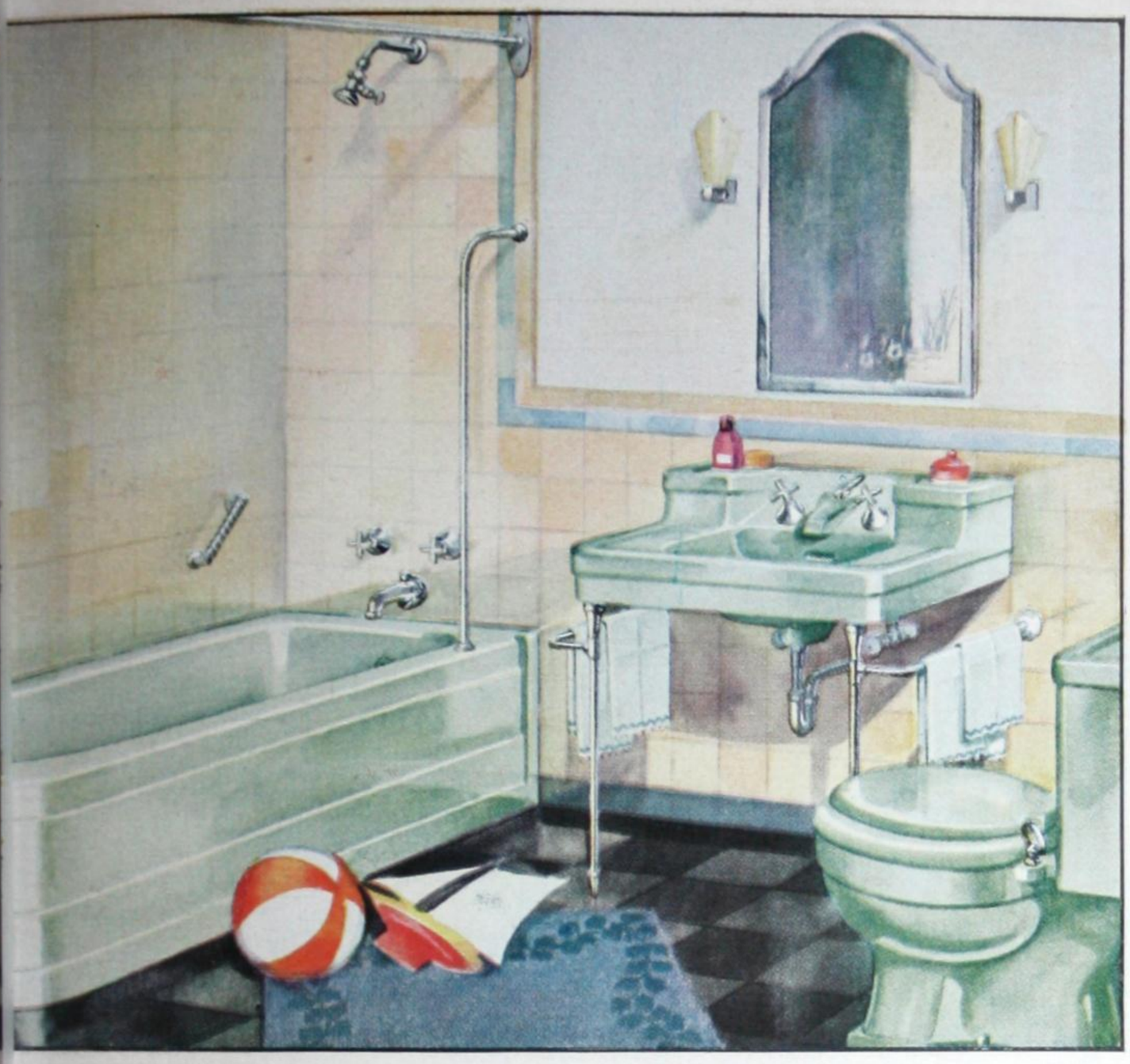


C 10482 MONADA *quiet-acting clos*
Cast of vitreous china in a single piec
its graceful contours hold no place f
dust and dirt to lodge. Siphon-jet,
action is thorough and quiet. The sh
top on the tank offers new convenienc

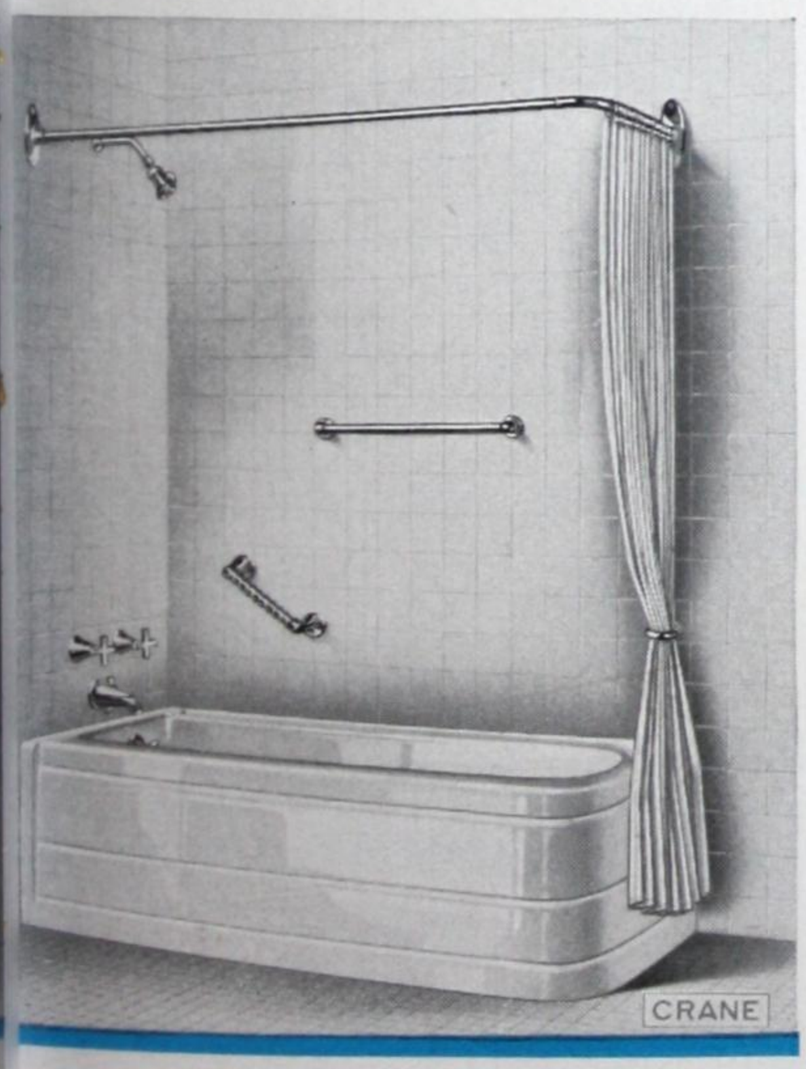
THE CORWITH GROUP

a widely approved ensemble of related designs

This bathroom is in keeping with the interior decoration of a home that is truly charming. The furnishings of no other room can boast more graceful lines, more harmonious colorings. Crane quality throughout assures that your original pride in the room will grow into lasting satisfaction.



Pale Jade (No. 415-A) of the fixtures and the cream of the tile harmonize his decorative scheme. In comparatively small space, a most attractive convenient bathroom arrangement has been achieved.



5 SANTONIA *vitreous china closet.* A ongated rim serves both comfort and sani- . The siphon jet action is free from embar- noise and very thorough. The tank top a useful shelf.

C 3284-LC93 CORWITH *porcelain enameled cast-iron corner bath.* Highlights on the receding planes emphasize the beauty of the contours. The flat bottom, low sides, and handhold bars make the CORWITH a safety-first shower tub. It is equipped here with a RIVAL compression shower. 4½′, 5′, 5½′, and 6′ lengths.





C 182-T COMPEER *vitreous china lavatory.* Beauty and utility vie in this delightful new design. Toilet accessories rest conveniently on the shelf back. The beveled panel keeps the fittings out of the way and in the most accessible position. The graceful chromium legs are fitted with HANDY towel bars. 22x18″.

CRANE

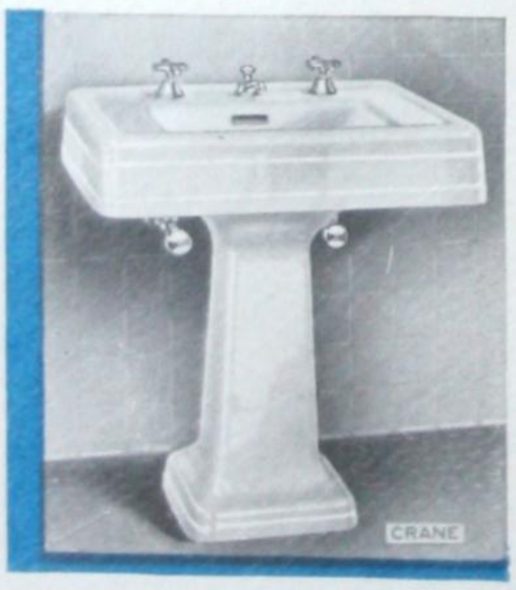
A MATCHED GROUP

high in quality—
medium in price

And here is conclusive evidence that a Crane bathroom is not expensive. In this room all the quality, loveliness, and convenience are present which have won so wide a preference for Crane fixtures. Don't forget—enduring beauty and utility will add much to economy in the long run.

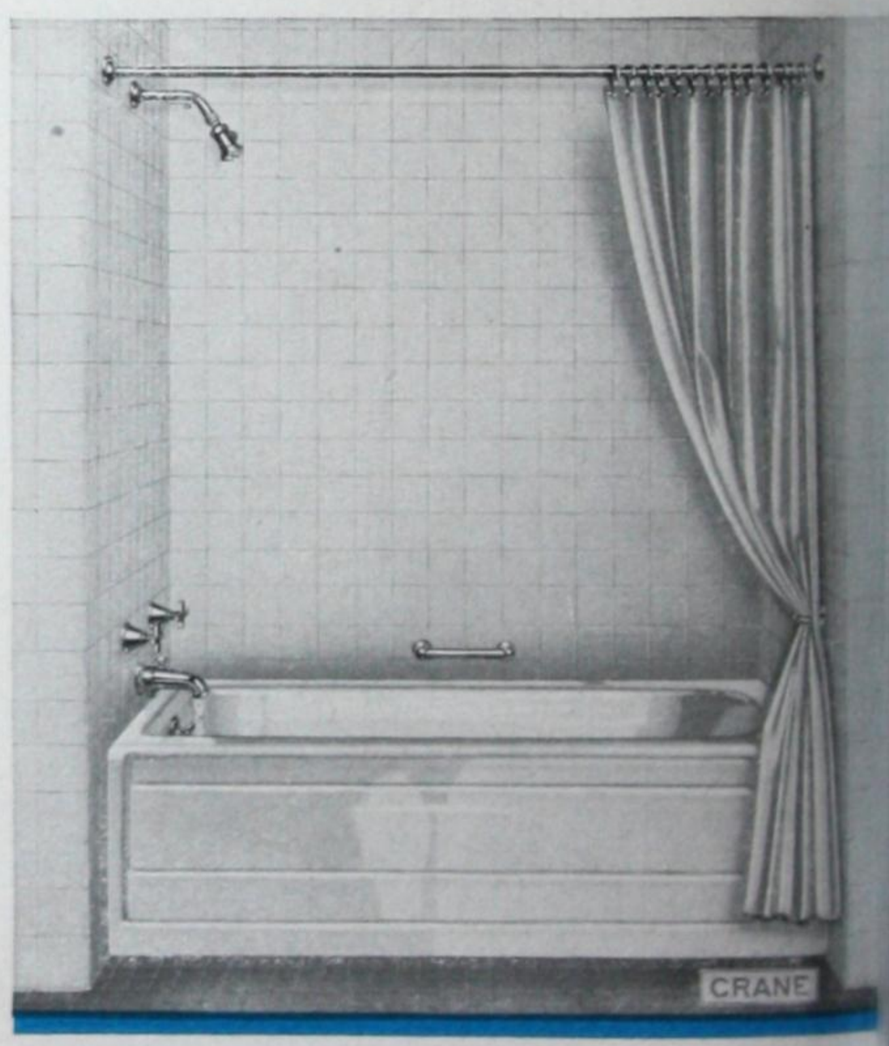


One family of colors, ranging from the deep brown of shower curtain and floor to the Citrus Yellow (No. 410) of the fixtures, blend with a most artistic effect. The recessed bath adds to the interest of the room.



C 2000-WM11 CORWITH *porcelain enameled cast-iron pedestal lavatory.* From the famous CORWITH family of fixture designs, this lavatory is molded in receding planes. Its proportions are unusually large. The rectangular bowl is spacious. Fitted with RIVAL metal spout supply and pop-up waste fixture. 24x20".

C 3308-LC93 CORWITH *porcelain enameled cast-iron recess bath.* Roomy to splash about in, safe to shower in, this splendid tub is a comfort to own and use. And a contribution to the decorative beauty of the bathroom, besides. With it is shown the invigorating RIVAL compression shower. 4½′, 5′, 5½′, and 6′ lengths.





C 10991 MAURCLONIA *plain rim close-cou vitreous china closet*—the latest refinement in v closet design. NEUMODE tank and bowl are b together in a single unit, eliminating the unsig flush connection. Closet has efficient siphon ac

FOR ECONOMY AND SERVICE



t only in first cost do you save on this group of Crane fixtures. You keep on ying the cost and trouble of repairs and replacements for many, many years.

Even where price is the main consideration, quality and design need not be sacrificed. In the least costly materials, as in the most elaborate, you can depend upon Crane. The same experience, the same care in making, the same searching factory inspection, goes into every piece.



42-T66 DORIS *porcelain enameled -iron bath.* A thoroughly satisfac- tub that requires no fitting into the l, corner, or recess. 4′, 4½′, 5′, 5½′, 6′ lengths.



C 2170-WM11 COLORADO *porcelain enameled cast-iron lavatory.* Hung on the wall with concealed hangers, space is saved, and no obstruction on the floor hinders cleaning. Equipped with the new RIVAL fittings with metal spout and pop-up waste. 24x18″.



C 11125-J NEUTON *vitreous china closet.* The washdown jet action assures thorough cleaning and complete sanitation. The IPSWICH tank has a six-gallon capacity providing abundant water supply.

THE CHARM OF COLOR

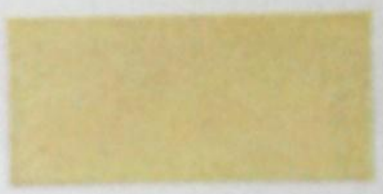
Very definitely, the preference of decorators today is toward delicacy in colo ing. Subtle shades are preferred to heavy or theatrical ones.

Reflecting this trend, delicate pastel tints predominate in the Crane colo range . . . orchid pink, India ivory, citrus yellow, pale jade, fern green, Nil green, Lucerne blue, Venetian blue, Java tan, and lavender. These are th chosen colors, available in vitreous china, porcelain (all-clay), and porcela enameled cast-iron. In addition, gleaming black and a rich Persian red appe to the more sophisticated. A handcrafted marbleized Botticini is available i vitreous china and porcelain (all-clay).

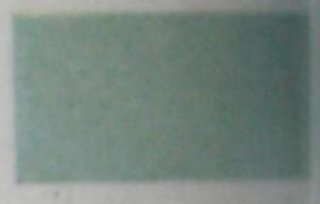
Because of the dissimilar characteristics of the materials, exact duplication o shades is not possible. The slight variations in tone in no way detract from th total effect. In fact, they enhance the general artistic scheme.

No. 400
Orchid Pink

No. 405
India Ivory



No. 410
Citrus Yellow



No. 415-A
Pale Jade

CRANE VITREOUS CHINA SHOULD NEVER GROW OL

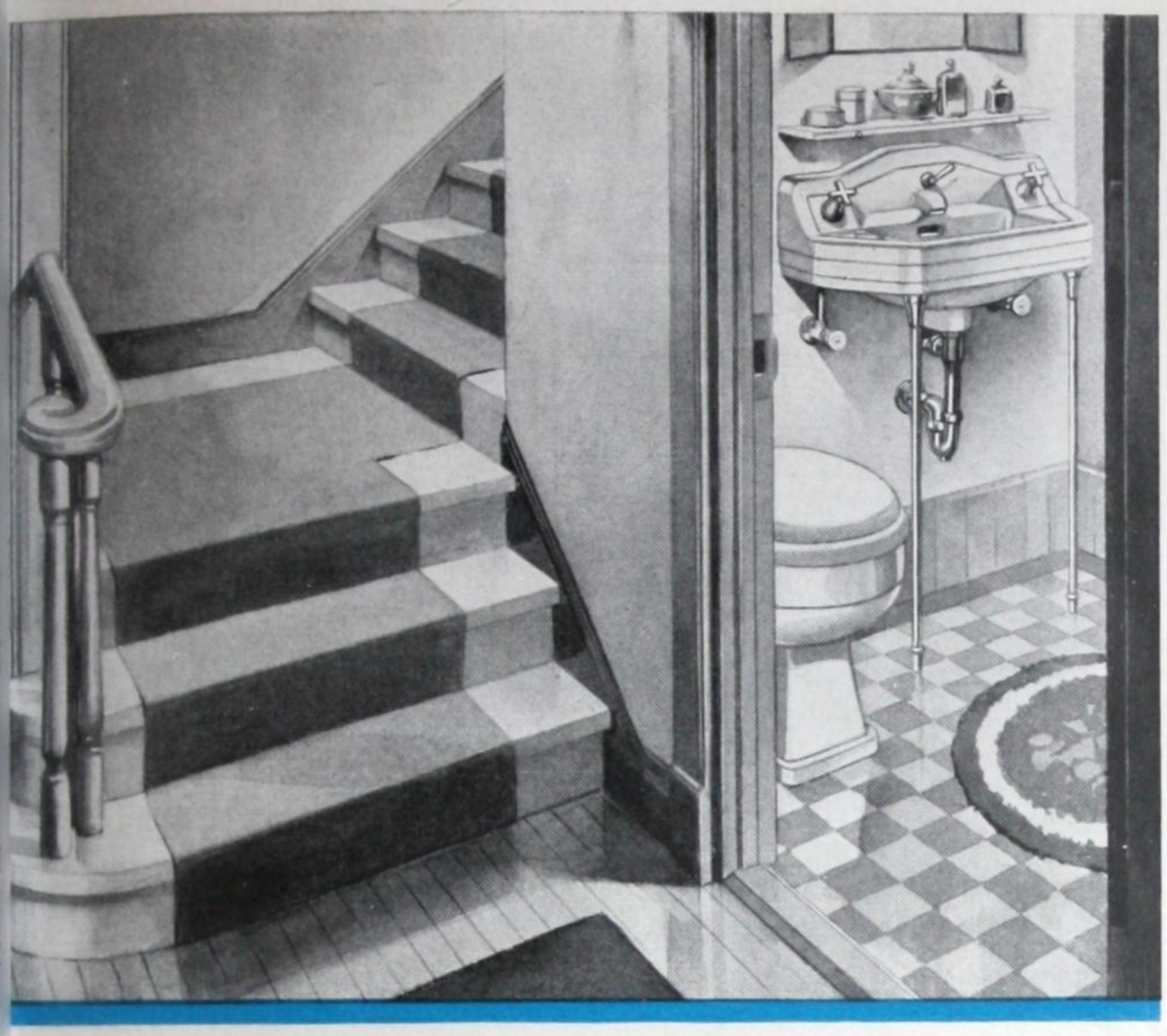
Vitreous china is recognized as the most sanitary material of which plumbing fixtures can be ma The same material, the same color, through and through, Crane vitreous china should never lose original beauty. Its gloss finish is non-porous, extremely hard and smooth, unaffected by the chemi action of soaps and ordinary acids. It is as easy to keep clean as a window glass or a porcelain plate.

CRANE ACID-RESISTING PORCELAIN ENAMEL STAYS IMMACULAT

Withstanding stains and injury from fruit juices and ordinary acid, easy to keep clean, long retains its original glistening luster, Crane acid-resisting enamelware is an improvement that has been eage welcomed. Its especially hard surface, not affected by tile cleaners' acids, is desirable for kitchen fixtu because the juices of lemons, tomatoes, and other acid fruits leave it unblemished. It is superior, t for bath and lavatory ware.

THERE'S A LASTING SHEEN TO CRANE CHROMIUM PLATIN

Always shining and untarnished, Crane chromium plating is kept as spotless as the enamel fixtures w just a wipe of a damp cloth. Not only appearance is served by this finish. It is durable, resisting worn appearance that soon disfigures nickel and other plating.



POWDER ROOM

a room
every woman covets

An adjunct to the art of entertaining, important to the comfort of feminine guests, the powder room is an essential to the modern home. Such a room should be included in the plans of every new residence. There is usually, somewhere on the plans, a closet leading from the reception hall or from the bedroom that can be easily converted into a powder room by any architect.



C 640 Design 40

CROMWELL is a smartly designed -saving lavatory. With its new rec- ılar basin and fittings mounted on ng panels, it is ideal for powder rooms.



C 10482

The one-piece MONADA closet, modern in design, and with the all-important quality of quiet, sure action.

ORNAMENTAL TRIMMINGS

Crane has commissioned leading artists and metal artisans to design unusual trimmings to contribute exclusive beauty to bathrooms.

Four of the most popular of these jewel-like ornamental trimmings are shown here. They are available in chromium, gold, and silver plate.



No. 50 Crystal fittings



No. 40 Octagonal fittings



No. 45 Fluted fittings



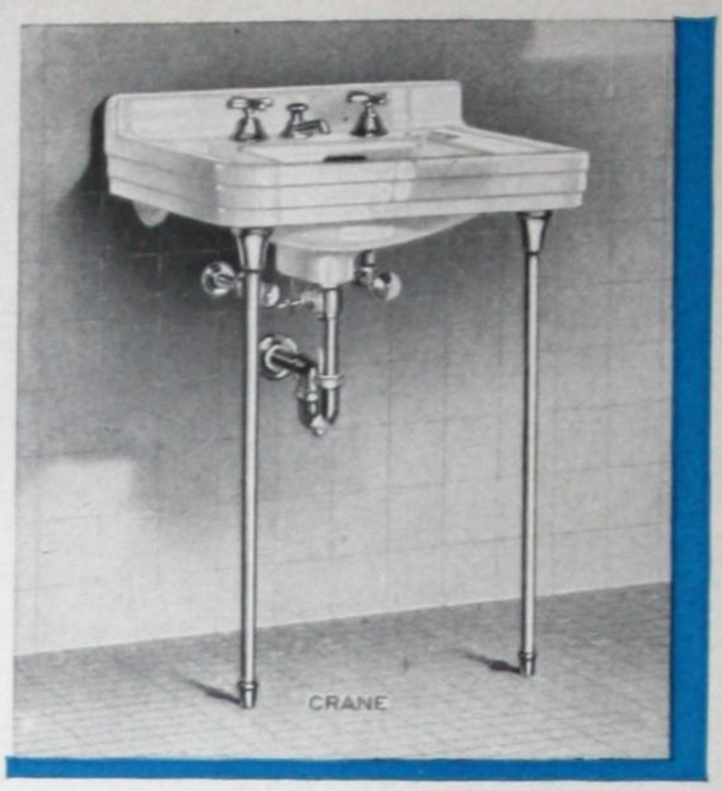
Square arm all-metal fittings

CRANE

LAVATORIES OF TODAY

- distinctive and modern designs

In Crane lavatories of today two ideals are attained: beauty of design and time-saving convenience. The latest styles from Crane designers are here illustrated.



C 170-WM11

Modern angles relieved by graceful curves distinguish this CORWITH on chromium legs. Fitted with the new RIVAL supply and pop-up waste fixture. 23½ x 17½".



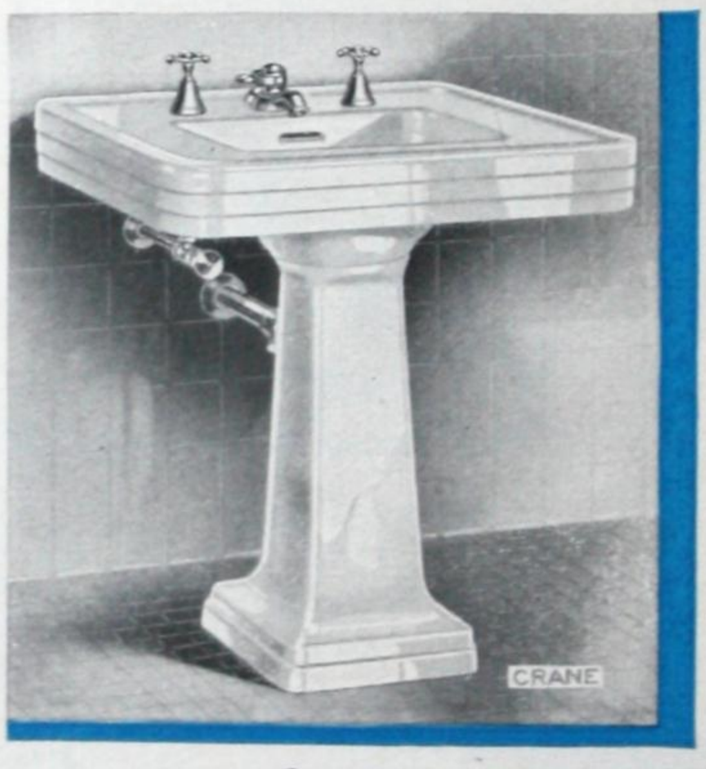
C 154-WM11T

Practical and conveniently pl HANDY towel bars add to utility and appearance of NORWICH on RIVAL Fitted with RIVAL supply pop-up waste. Sizes 20x18" 24x21".



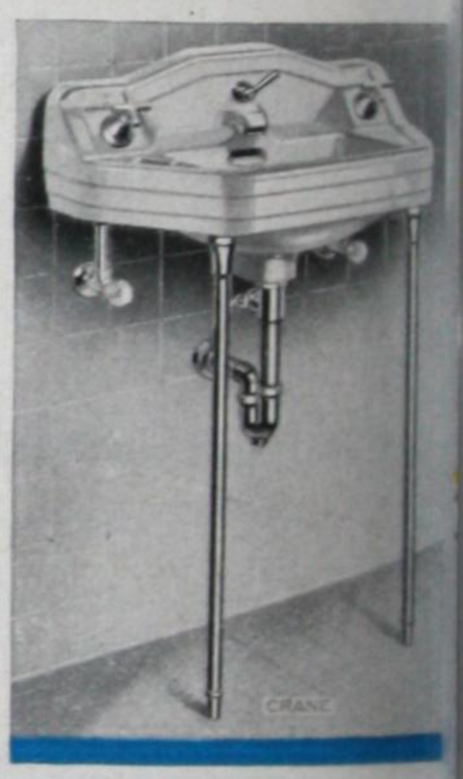
C 255-L11

NORWICH—a modern design, vitreous china lavatory on pedestal with LEVER ACTION SECURO quick draining supply and waste fixture. Sizes: 24x21", 27x22", and 30x24".



C 220-L9

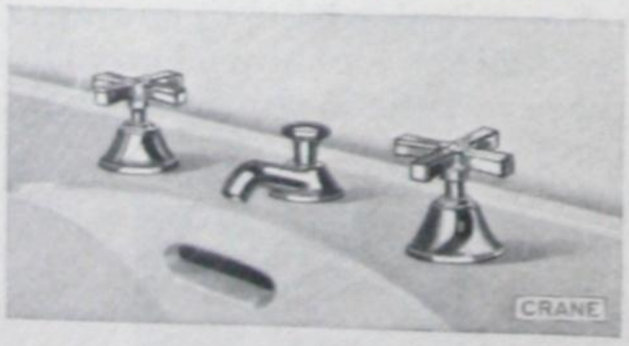
One of the popular CORWITH family of fixtures. A massive fixture on pedestal, designed with receding planes that high-light the beauty of each line. In five sizes: 24x21", 27x22", 30x24", 33x24", and 36x24".



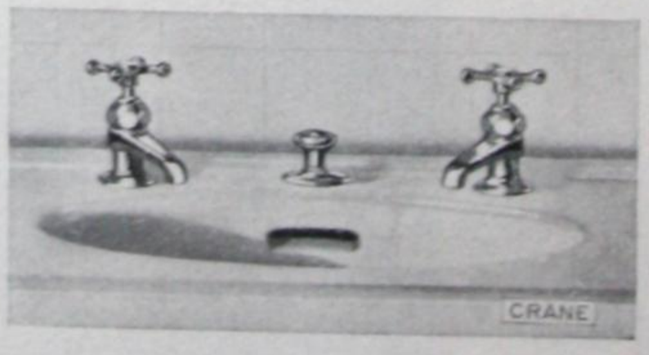
C 174

Space has been conserve the CROMWELL lavat It extends only 14" from wall, yet is 26" wide. fittings on slanting pa are out of the way yet veniently at hand.

LAVATORY TRIMMINGS



WM11 RIVAL lavatory supply and waste fixture—modern in design and dependable.



W5 TELSA JR. compression faucets, with all-metal handles RIVAL pop-up waste.

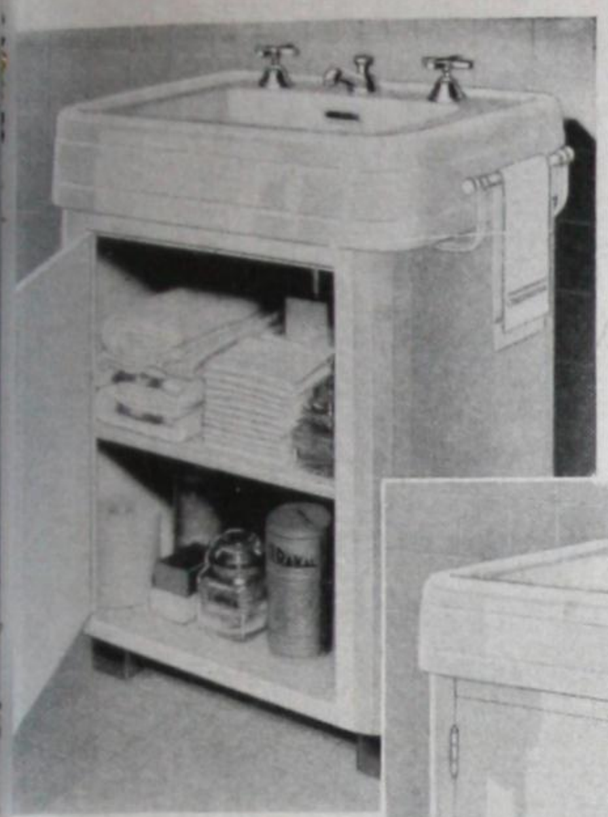


L9 LEVER ACTION SECU fixture; quick-draining waste; wearing parts renewable.

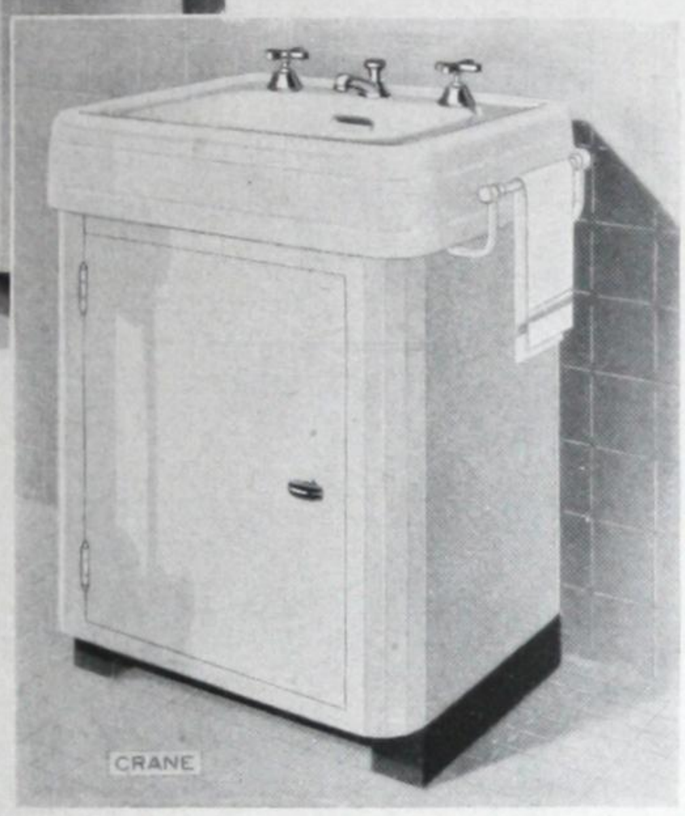
LAVATORIES FOR EVERY PURSE AND HOME

● newest designs

No matter what your ideas may be, regardless of the limitations of your space or your purse, there is a Crane lavatory that exactly fits your needs. If the exact design you have in mind is not shown here, your plumbing contractor can supply it. Or you may see it at a nearby Crane Exhibit Room.

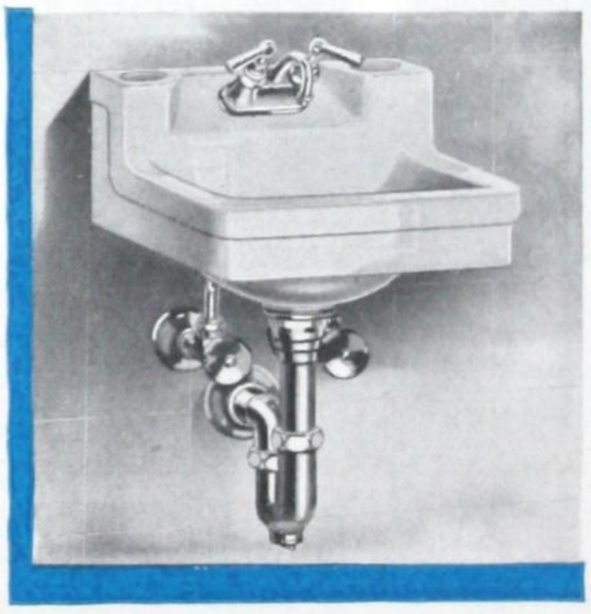


The Crane Cabinet Lavatory, a new idea for bathroom or bedroom — a space-saving lavatory with cabinet facilities.



C 2001-WM11

In the compact space of modern bathrooms, some handy place is needed to store the extra soap, towels, and toilet accessories. This new fixture, utilizing ordinarily wasted space beneath the lavatory, solves the problem. Cabinet is of all-steel construction with towel bars to match. Lavatory is newest design of vitreous enameled cast iron—a practical, complete combination with RIVAL supply and waste. Size 24x20″. Also furnished with two-door cabinet in 27x22″ size.



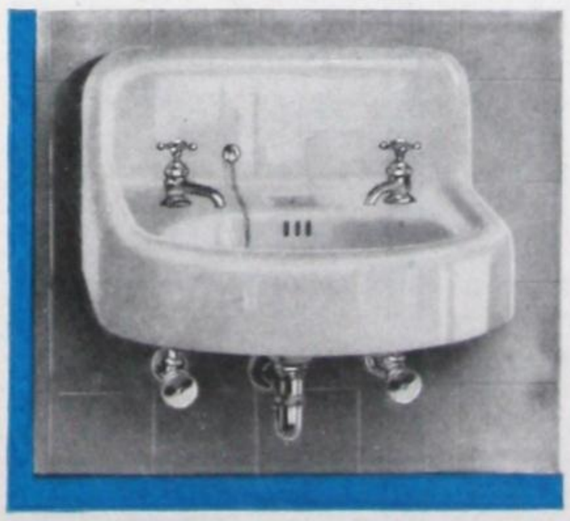
C 1221 DENTRIX *dental lavatory*. A refinement dictated by good taste and demanded by sanitation for every bathroom of today. The DENTRIX is beautifully modeled in vitreous china for lasting whiteness and instant cleaning. 12x12″.



C 654 HERMITAGE *vitreous china lavatory*. A beautifully designed wall-hung lavatory, most compact and moderately priced. Its RIVAL supply fittings are styled in the newest mode. 20x13½″ and 26x13½″.



C 754-W5 NORWICH *vitreous china lavatory* hung on concealed hanger and fitted with TELSA JR. faucets and RIVAL pop-up waste. 18x15″, 20x18″, 24x21″.

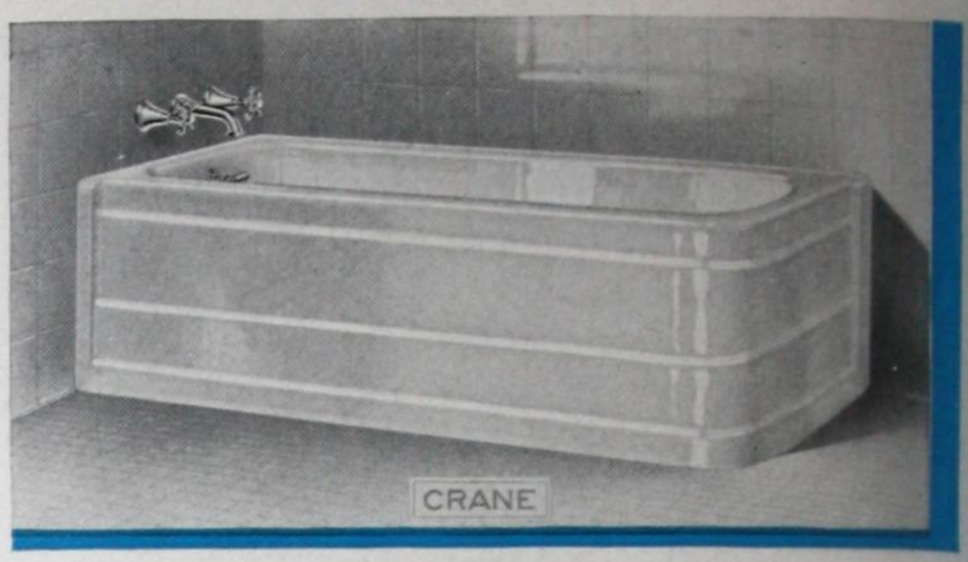


C 2250-P5 NORFOLK *porcelain enameled cast-iron wall lavatory* with separate faucets and P. O. plug. 19x17″ and 21x18″.

CRANE

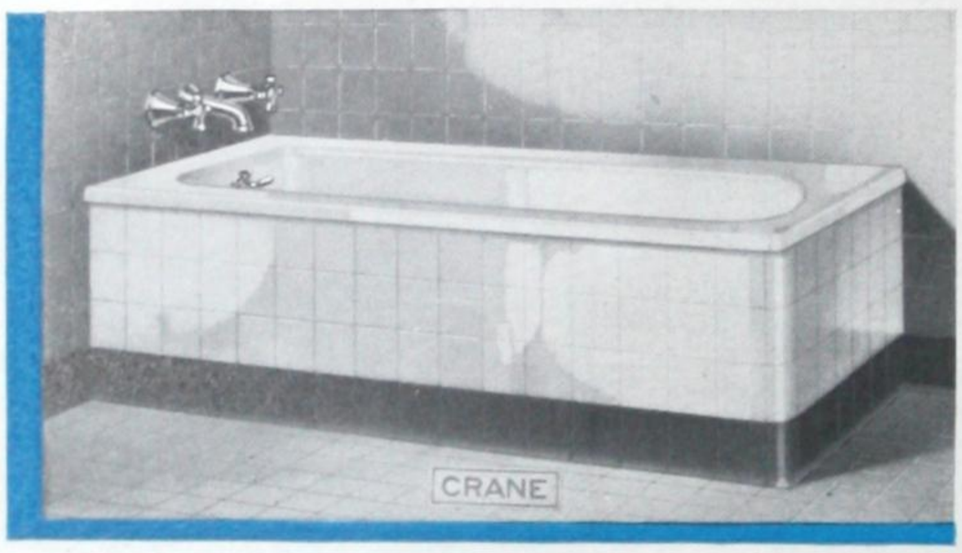
BATHS OF BEAUTY

No royal castle ever boasted the luxury of bathing which is within reach of every household today. Crane has designed bathtubs of glistening cleanliness and charming contours. Their designs are modern; their fixtures, the last word in convenience. They are built to inspire that popular song, "Singing in the Bathtub."



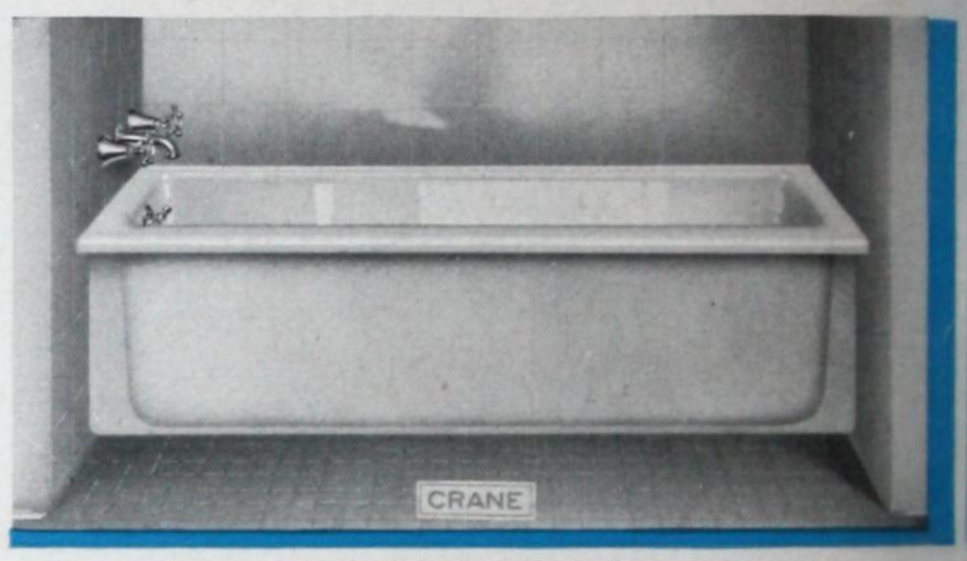
C 3284-LG32

CORWITH *corner bath*—the design that set a new style which has been widely imitated but never equaled. It comes in all styles for either right or left corner or recess and in 4½, 5, 5½, and 6-foot lengths.



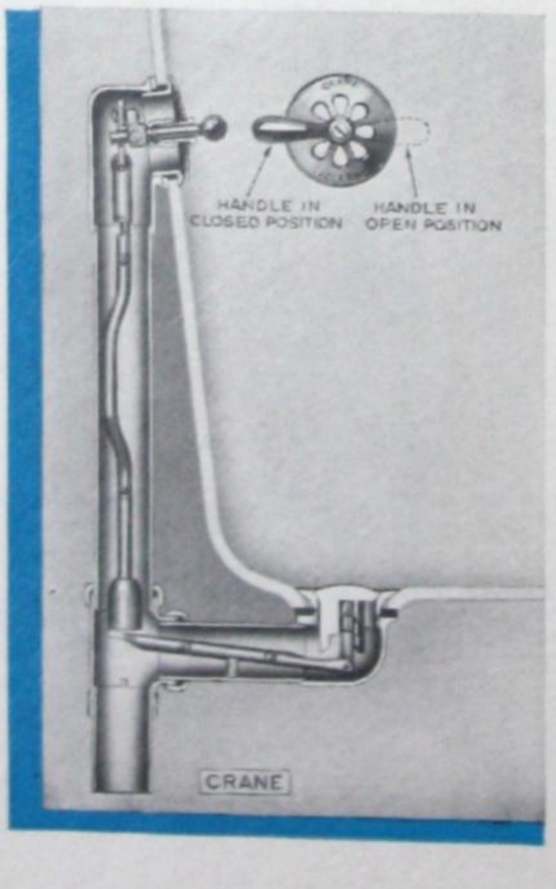
C 3330-H32

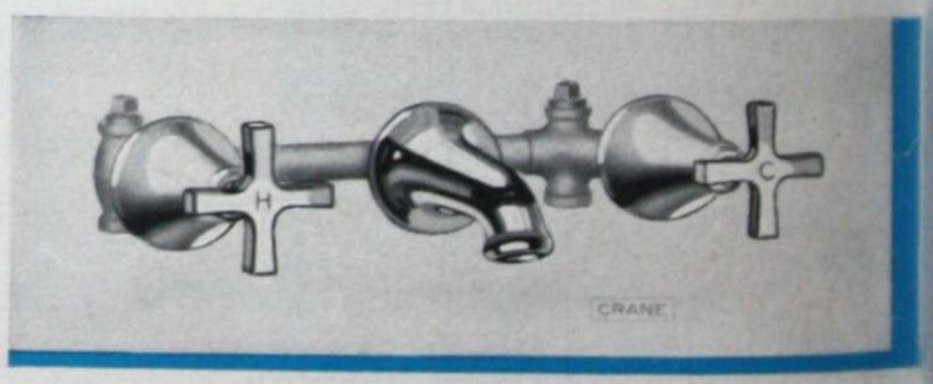
TARNIA *bath*—the sides for tiling offer limitless possibilities for decorative effects. The TARNIA is designed for corner or recess placement, for setting with one side against the wall, or entirely in the open. The smart faucet and outlet handles are Design 40, shown on page 7. 5, 5½, and 6-foot lengths, 32 inches wide. Also 5½ feet by 36 inches.



C 3370-LG32

VERNA *recess bath*—a modern and most moderately priced built-in tub. The inside is enameled, the outside is painted and may be tinted to match any scheme of decoration. 4½, 5 and 5½-foot lengths are supplied.





C 33515-A

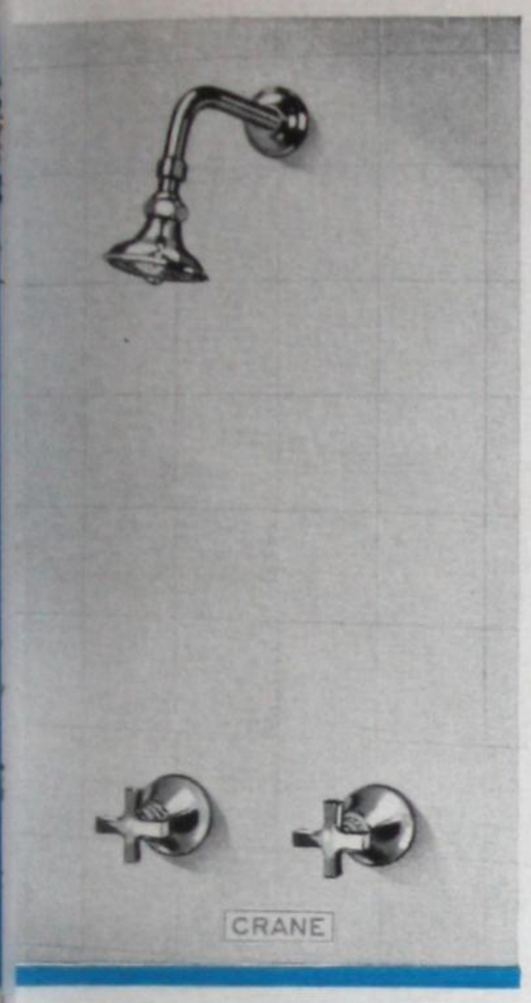
Every type of bath supply fixtures is supplied by Crane. Here is one of the most popular styles. All the piping is completely concealed at the end of the tub. Only the smartly designed spout and handles are visible.

C 33581-E

ACCESSO *waste*—an exclusive Crane achievement. Water used by the previous bather cannot back into the tub and contaminate the fresh supply. The ACCESSO is positive in action, tight, and trouble-free.

A SHOWER IS A HEALTH TONIC

There is nothing to match the sheer pleasure of clean water coursing over your body. Cool in the morning, your entire being is wakened to a better day. Warm at night, jangled nerves are soothed, tense muscles relax, and sleep is lured. Every home, every tub should be equipped with a shower.



C 4261-B

RIVAL *concealed shower.* ig 4-inch head, swinging ball joint, may be directed y angle desired. The face movable for easy cleaning.



C 4375-B Design 50

Ornamental mixing valve shower. A single crystal glass handle blends hot and cold water to any degree of temperature. Another handle in the shower head controls the force of the flow.

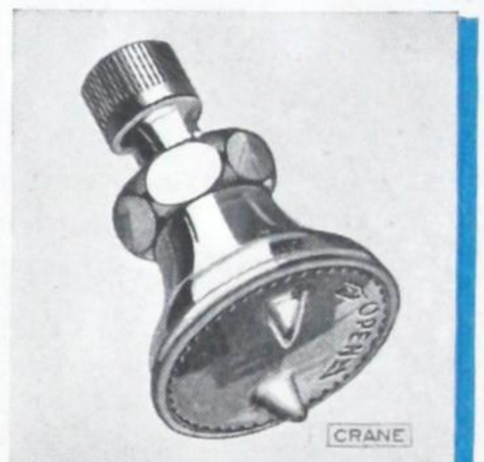


C 4875

REFRESHOR Easy-Clean Shower Heads

(PATENTED)

Here's a new shower head that gives a clean, brisk, splashless flow, and uses up to 50 per cent less water. A single twist of the shower face opens it for cleaning without tools. Supplied with straight or ball joint, also with volume control. An exclusive Crane fixture.



C 4875-B



C 10384 CRANE SIWELCLO *closet,* molded of sparkling, glass-smooth, non-staining vitreous china, in the newest design.

QUIET, SANITARY

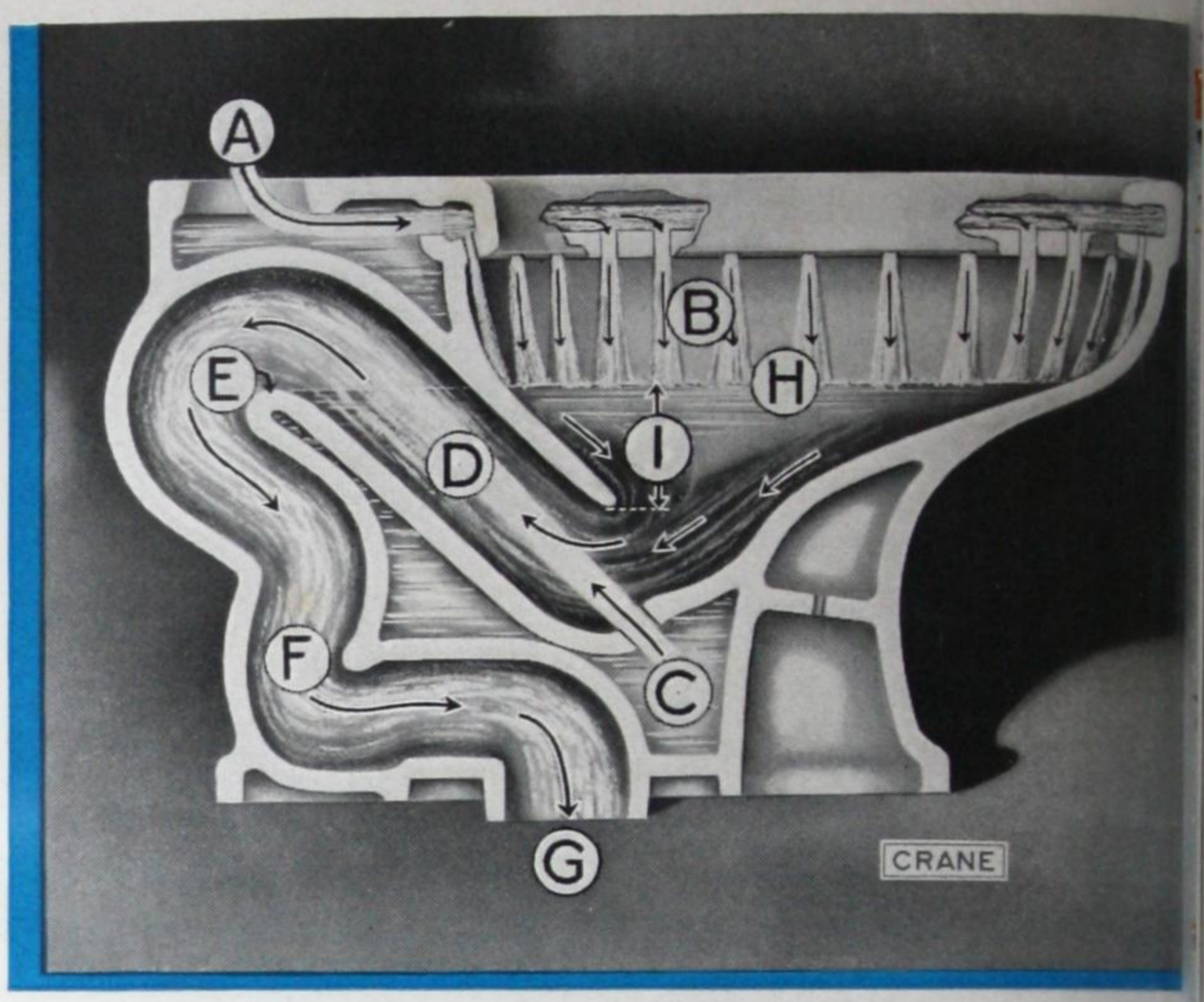
• exclusively Crane

CRANE SIWELCLO—the latest water closet embodying every important development. Designed with a seat curved for correct posture. Exceptionally quiet and positively thorough. The tank has a convenient shelf top. There is no more hygienic, efficient, or attractive closet on the market. Only Crane offers these exclusive advantages.

YOU SHOULD CHOOSE A SIPHON JET CLOSET

The siphon jet closet has a double action—the push caused by a jet and the pull created by the siphon action. The strength or volume of the pulling action is gauged by the distance of water travel through the outlet. Siphon jet closets have an extra long outlet passageway, therefore a longer pull and a more vigorous and thorough flushing action.

When the water is flushed, it rushes around the hollow rim at the top of the bowl and down through holes, scrubbing and cleaning the sides. At the same instant, a strong jet from the bottom shoots back and up toward the outlet, forcing the water and waste over the dam and into the downward passage with a contortional travel. At once a strong pulling siphonic action is started which completely empties the bowl. As the water and waste matter are drawn from the bowl, air enters the outlet passageway through the top, breaking the siphonic action. Because this air follows the water instead of coming up from the drain pipe (as in some closets), none of the sewage can be washed back. The outlet passage is immediately sealed by the refill. This prevents return of gas and odors from the outlet passage. Siphon jet clos also have a larger outlet passageway, a larger water surface, an deeper water seal than the ordinary type.



These are some of the reasons why you should choose a siphon closet. But a few words of caution: efficient siphon jet action depe upon exact proportioning and scientifically correct design in ev passage and part. This is the reason why you should be sure t the siphon jet closet you choose is a *Crane* closet.

A—inlet to closet
B—rim flush
C—jet
D—outlet passageway
E—outlet passageway
F—outlet passageway
G—closet outlet
H—water surface
I—water seal



C 10535

SANTONIA. Efficient and sanitary, the SANTONIA is one of the recent Crane advancements in closet design. Vigorous siphon jet action. The closet and shelf top tank are closely coupled into a stanch unit. The elongated opening is sanitary to a new degree.



C 10945-A

LEXEL. A harmonious blending of structural and architectural treatment—vitreous china tank and bowl are cast in one piece. Curved edges of tank back make it adaptable for corner or free-standing installations.



C 11125-JA

NEUTON. A less expensive but sa factory closet. The washdown act with jet is efficient. The NEUMO tank of six-gallon capacity supp abundant water for complete san tion.

KITCHEN REFINEMENTS

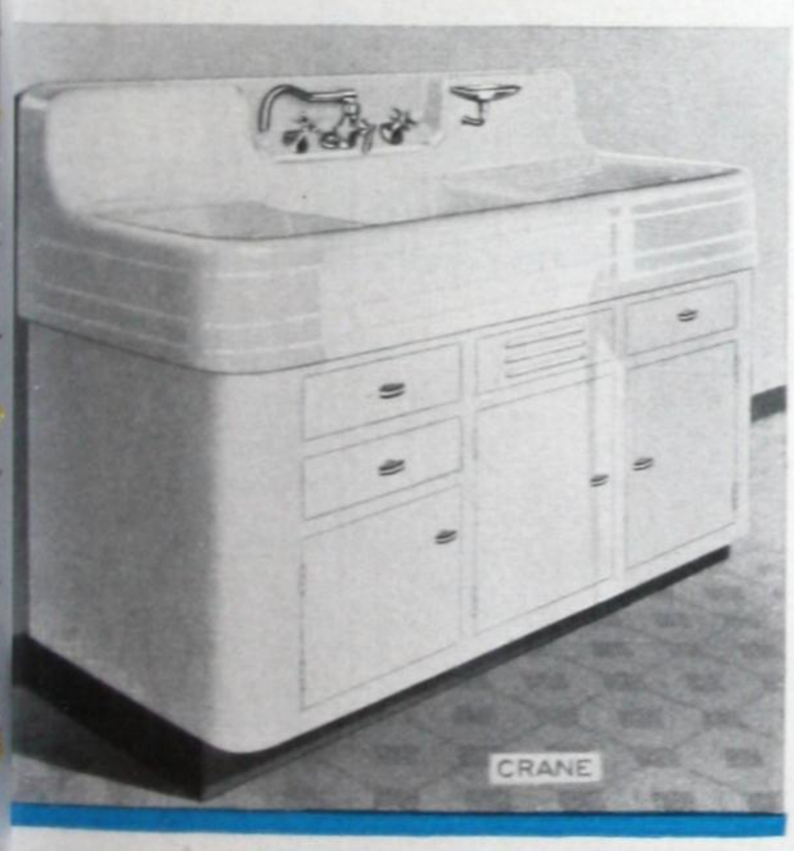


So much of the general efficiency of the home depends on the smooth operation of the kitchen. A well equipped kitchen saves time, steps and work.

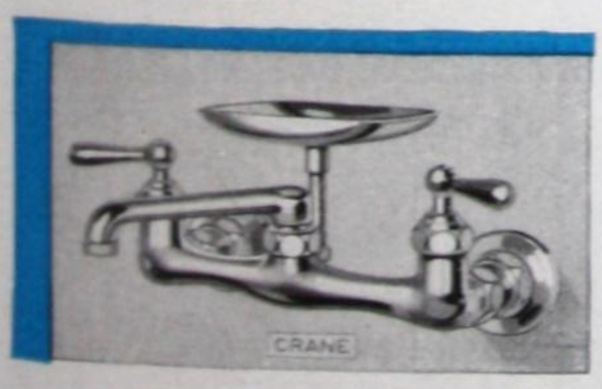
The stove and the sink vie for first place as the most important equipment, and usually more time is spent at the sink, cleaning vegetables, preparing food, and washing pots, pans and dishes.

So it is most essential that the kitchen sink be a joy to have and a help in short-cutting the daily tasks—in other words, a modern Crane sink in glistening white enameled ware that will not dent, corrode, or cloud.

equate storage space is one of the uisites of the small yet modern kitchen — problem overcome with the new and pular cabinet type sinks. Utilizing linarily wasted space beneath the sink, y provide convenient storage space, for oking utensils, cutlery or linen.



9170-D same as CORWITH sink illustrated on the t except with *C 19934* cabinet, a completely enclosed . Cabinet is all-steel welded construction with ample ver and cupboard space. Recessed sub-base provides room. Cabinets have a durable twin baked enamel h and black composition hardware.



2740-5N IMPROVED AGILIS *faucet* with non-shing swinging spout and metal soap dish. Hot and l water, blended to the right temperature, can be cted where wanted. Its NEWSLEEVE trimmings renewable seats permit quick replacement of all parts ject to wear.



C 19170-D CORWITH porcelain enameled cast-iron sink with recess panel, large DUAL strainer and *C19936* drainboard cabinets—a compact, space-saving unit for those who wish the underneath sink space to be free and open and still gain the advantage of additional storage space. Sizes 60x24″ and 74x24″. ADD-A-UNIT cabinets with linoleum table tops are made in various sizes.



C 19177-YX CORLAND porcelain enameled cast-iron sink with single drainboard on right or left. Fitted with UTILITY hand-operated waste with removable cup strainer, and IMPROVED AGILIS double faucet. *C 19938* spacious all-steel cabinet. Size 52x24″.

C R A N E

THE SUNNYSIDE CABINET SINK

• all that a sink should be

Few kitchens have the necessary storage space for articles in daily use. In the SUNNYSIDE you will find enough space for many of them, and you'll have work space for the greater kitchen tasks.

Its unusual features—low back—safety drain ledges —shallow-groove drainboards—deep basin—roomy storage bins—IMPROVED AGILIS double faucet —glistening enamel finish—are but few of the many reasons every home owner will want it.



C 19162. The compact SUNNYSIDE for indivi installation as a unit without adjoining cabin Has ample storage space for cutlery, pans and lin Size 60x25".



Here is the SUNNYSIDE Cabinet Sink with drawers and doors open to show its generous and conveniently arranged storage capacity.



The level safety ledge—for draining and drying fragile glassware.



UTILITY drain wi movable cup str Stopper converts basin for dishwa



IMPROVED AGILIS with swinging spout and able soap dish.



The SUNNYSIDE Cabinet S easily adapted to the desig arrangement of the kitchen illustrated here it lends a n welcome variety to the cont table top arrangement and yet harmoniously with the design kitchen as a whole. It is th point around which all other f may be artistically planne sparkling surfaces and graceful stand out favorably withou shadowing the general motif. boards, back and basin, being one piece, this sink affords no nor crevices for water t through or food particles to

PRESENTING THE CORWITH

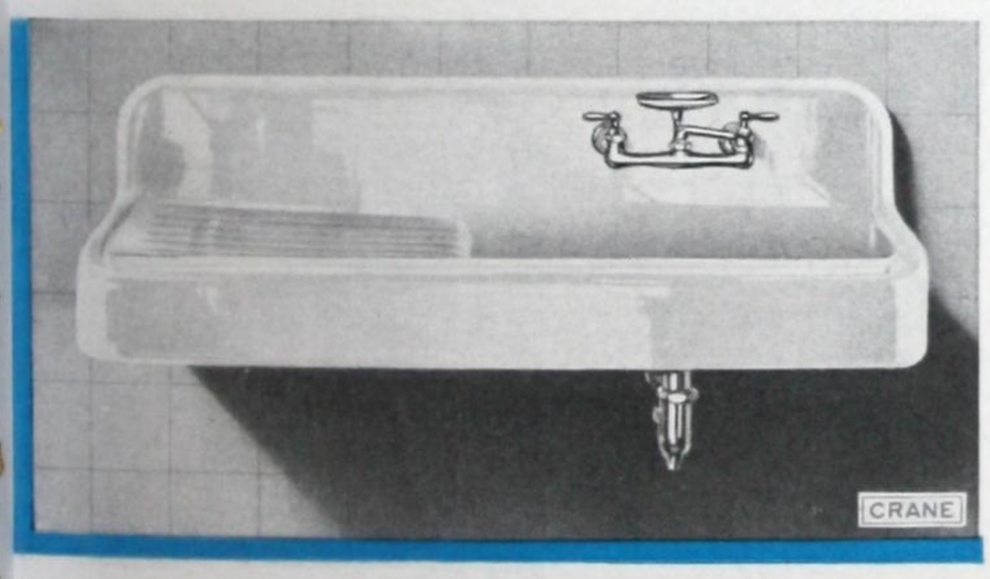
• in vitreous china

The ultimate in wares for a kitchen sink is vitreous china. But not until recently has it been possible to cast large fixtures of this glistening, impervious material. On this page is presented the exclusive Crane CORWITH design, cast in a single unit of vitreous china. Here, too, are shown sinks of porcelain enamel on iron, most moderate in price.

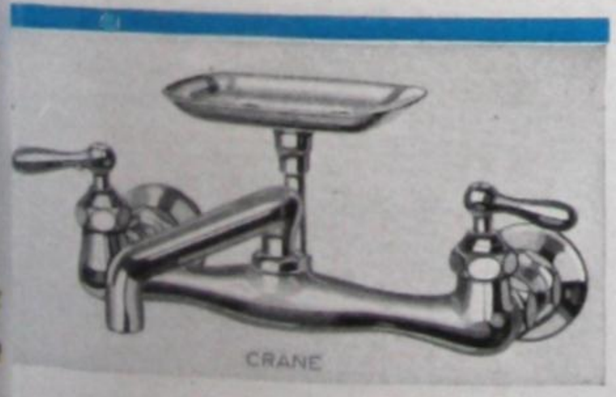


C 19111-LX

CORWITH *vitreous china sink.* Molded without a single crack or crevice in the CORWITH design, with its distinctive receding panelling. Even the legs carry out the same motif. Added to the advantage of the recessed swinging spout fixture, the concealed spray, the UTILITY waste and removable cup strainer, is the assurance of lasting, glistening beauty. 52x24″.



C 19194-LY. The duplicate of the sink at the right except for a single drainboard which may be had at either right or left side. Both have an eight-inch back to protect the wall. Both are moderate in price. 42x20″, 52x20″, 52x22″. Also furnished with C 19948 all-steel cabinet.

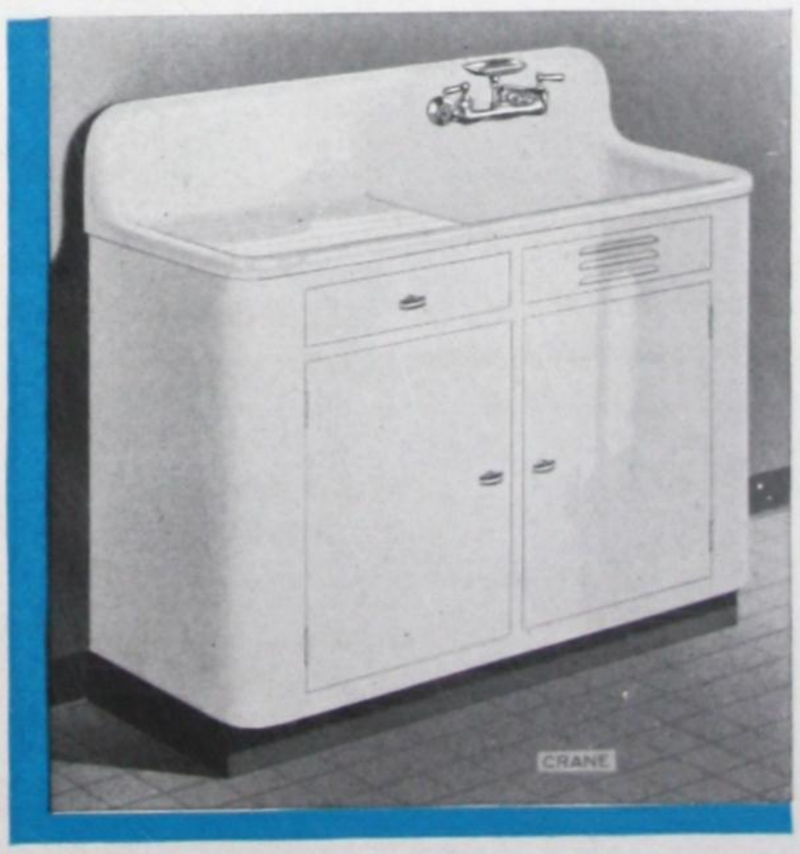


751-S. RIVAL sink faucet with swinging spout and soap dish—just one example of the many refinements obtainable on Crane fixtures.



C 19184-Y. Double drainboard enameled cast-iron sink with apron and *C 19944* all-steel cabinet. A moderately priced unit with ample drainboard area and storage capacity. IMPROVED AGILIS double faucet. Sizes 60x20″ and 60x22″.

C 19230-LZ. Roll rim enameled cast-iron sink with either right or left single drainboard. *C 19968* all-steel cabinet with baked enamel finish and recessed toe base. RIVAL double faucet with swinging spout. Economically priced. Sizes 42x20″ and 52x20″.

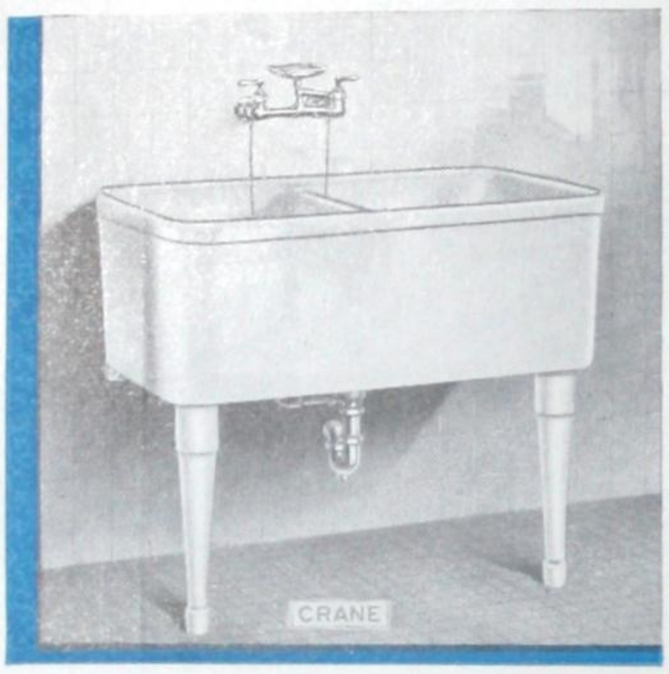


HELPS FOR WASHDAY

● The musty wash tub belongs to the past. The basement has become a livable part of the home—a place for pleasant work and for play. The modern laundry tub is no less attractive than the kitchen sink of today. Its pure white surface glistens with cleanliness and its lines are gracefully modeled for utmost convenience.

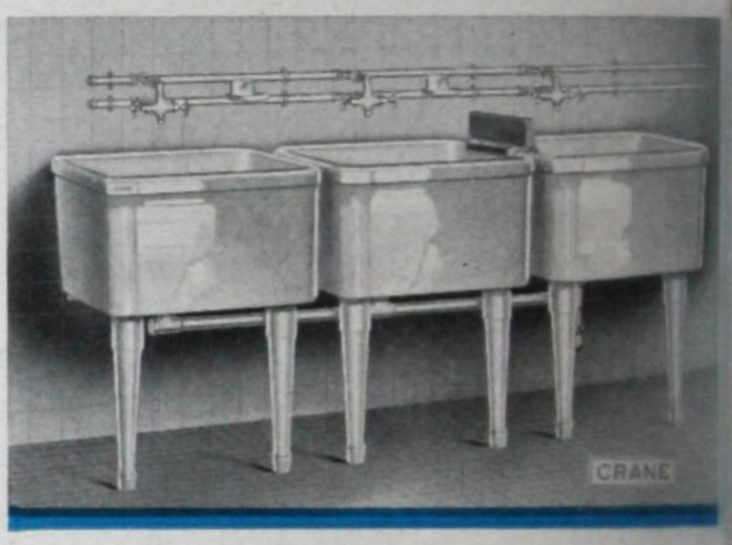


C 21110-LA Combination Sink and Laundry Tub, the laundry solution for modern homes built without a basement and for apartments where the laundry is not quickly accessible. The drainboard is instantly removable, revealing a large laundry tub. Molded of porcelain enameled cast iron, it can be kept immaculate with ease. 36x22″, 42x22″, and 50x22½″.



C 21155 (left). Two compartment laundry tub. Cast in a single unit of vitreous china. Equipped with a RIVAL double faucet that blends the water and directs it to either tub. As easily cleaned as a china plate. Size 44″ long by 20″ wide.

C 21167 (right). White solid vitreous china laundry tubs with not a crack or crevice where dirt might lodge. Easily cleaned. Any number of units desired may be installed side by side. 22x20″, 24x20″, and 28x20″.



LAVATORY FAUCETS WITH NEWSLEEVE TRIMMING UNITS



C 31812-RN IMPROVED TELSA faucet, an attractive durable and trouble-free faucet with NEWSLEEVE trimming unit and renewable seat.

A new Crane development in faucet satisfaction is the NEWSLEEVE Trimming Unit, a feature of the faucets shown on this page. The entire unit may be removed, without even taking the faucet body off the lavatory, and all parts subject to wear may be instantly replaced. A new span of service is thus assured.



Sectional view of IMPROVED TELSA faucet showing NEWSLEEVE unit

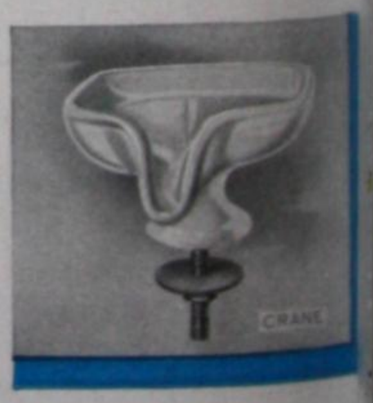


C 31918-RN IMPROVED AGILIS quick-opening faucet equipped with NEWSLEEVE trimming unit and renewable seat.

C 31906-N (below). This IMPROVED AGILIS, with indexed metal handles, blends water from a single spout. Fitted with NEWSLEEVE trimming units and renewable seats.

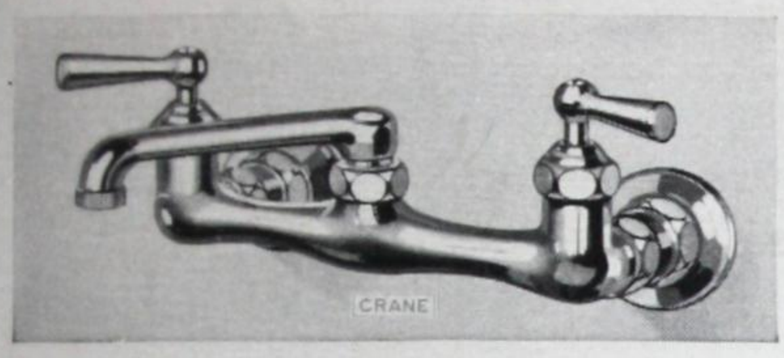


C 25270 (right). This attractive china pedestal soap holder with drain lip is placed at the left of the lavatory as a companion to the C 31906-N faucet.

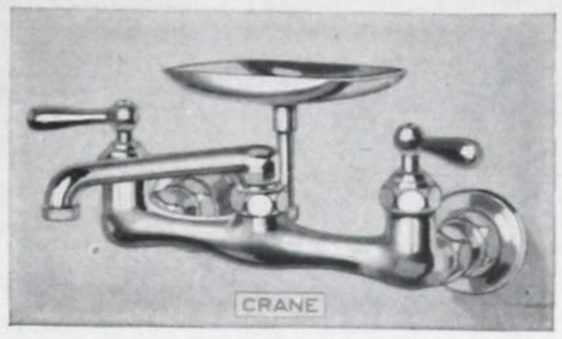


SINK FAUCETS

The faucet is the "business part" of the sink. On it depends your satisfaction with the entire fixture. Crane's unrivaled experience in engineering valves and faucets assures long and trouble-free service from the equipment of every Crane sink.



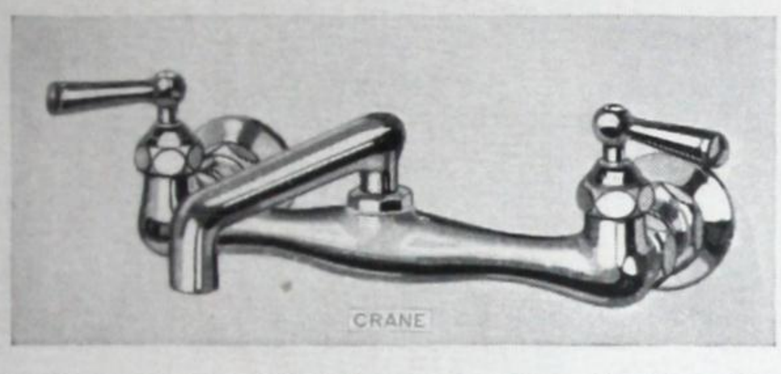
C 32740-N Crane IMPROVED AGILIS compression double faucet with metal handles, NEWSLEEVE trimming units and renewable seats.



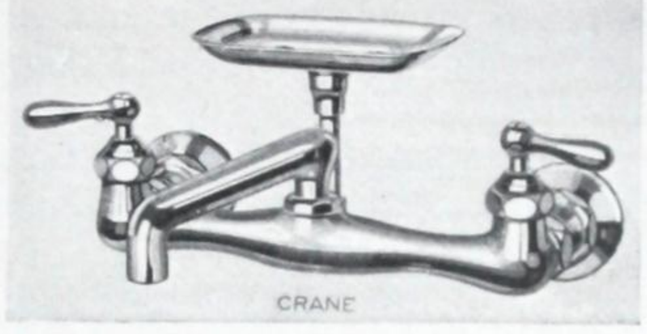
C 32740-SN Crane IMPROVED AGILIS double faucet with metal soap dish, NEWSLEEVE units and renewable seats.



C 31103 Crane TELSA compression faucet, hose end.



C 32751 Crane RIVAL compression double sink faucet with metal handles.

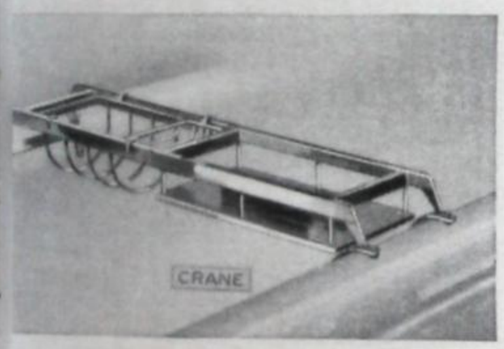


C 32751-S Crane RIVAL compression double sink faucet with metal handles and soap dish.

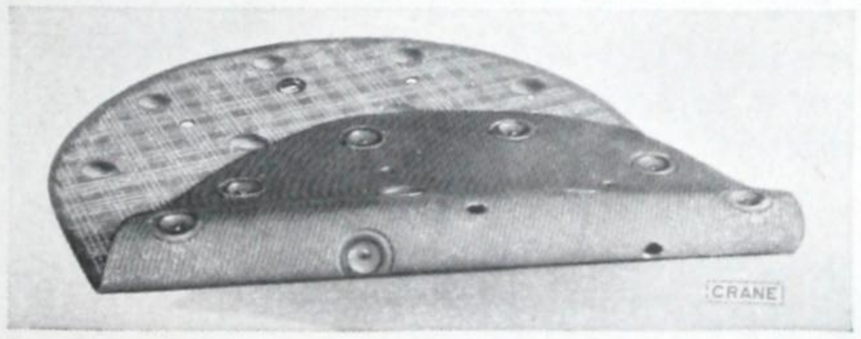


C 31160 Crane TELSA compression faucet.

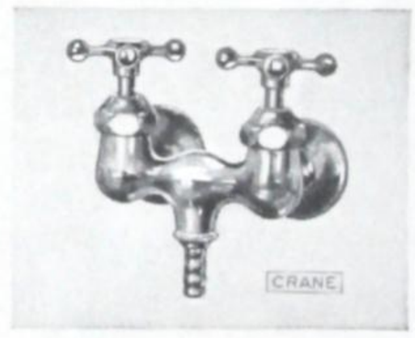
BATH FAUCETS AND ACCESSORIES



654 Chromium adjustable bath with tray, sponge, and soap er. Rim clamps with rubber tips.



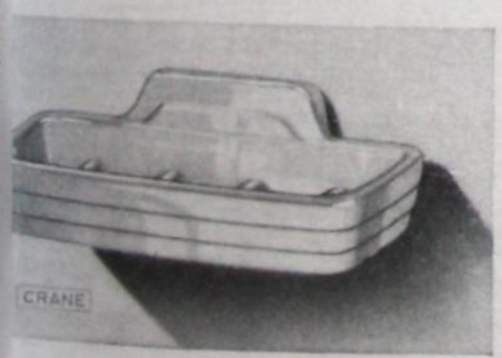
The FOOTSURE safety bath mat has suction cups that grip the tub. Sanitary and odorless rubber.



C 33103 Crane TELSA compression bath faucet.

CRANE NEW ACCESSORIES

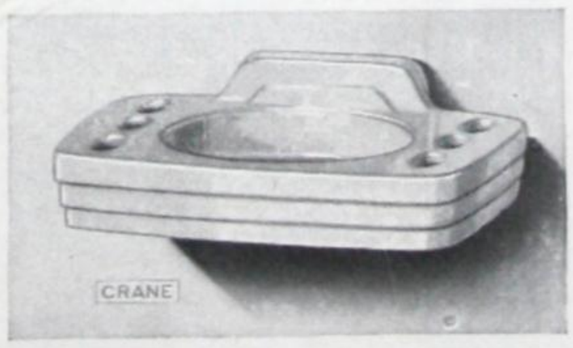
A completely new and exclusive Crane line of vitreous china accessories introduces character into the designing. Smart, modern, not bulky, they are styled to harmonize with Crane fixture designs of today.



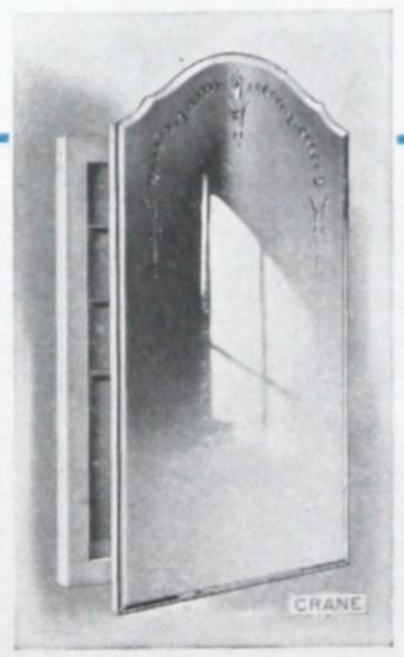
C 24940 Soap Dish.



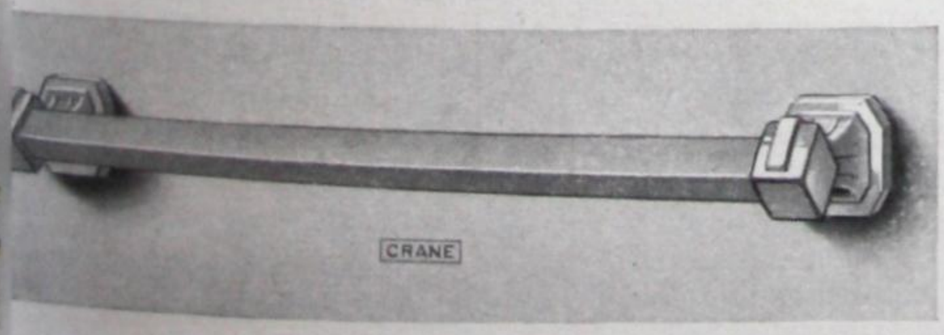
C 24932 Tumbler Holder.



C 24935 Tumbler and Tooth Brush Holder.



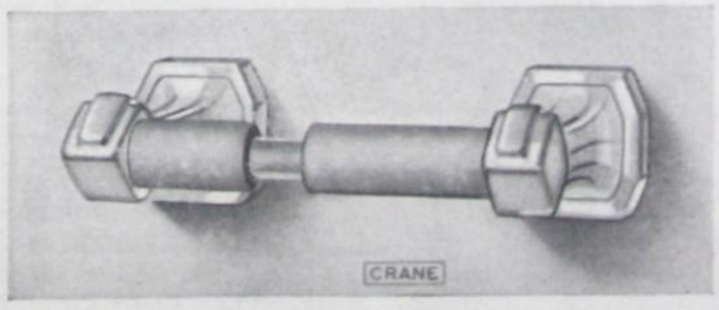
C 26898 White steel cabinet. Glass shelves. Floral etched or mitred line plate glass mirror. 16x24″, 18x26″, 18x32″.



C 24925 Towel Bar—18″, 24″, 30″, and 36″ long.



C 24960 Robe Hook.



C 24956 Toilet Paper Holder.

Crane accessories are supported to wall with concealed wedge type supporting clips.

CRANE HEATING BOILERS

• mean true economy

THERE are several important things to remember when choosing a heating plant. Replacement is far more costly than the original installation. So save by choosing quality materials. Save by getting a large enough boiler and sufficient radiation in the first place. Most important, save by choosing *modern* equipment designed to save fuel.

A 79-year manufacturing reputation, long study, and thorough experience have produced Crane master-heaters that at last rout the waste which steals fuel dollars.

The first waste goes up the chimney. How many dollars are going up the flues of ordinary heating plants in unused heat and unburned gases? *Crane Boilers force the heat through flues back and forth, until every last available bit of heat is transmitted to the water.*

The second waste comes from air bubbles. They form on the inside of water sections, insulating them, keeping heat away. *Crane Boilers speed the water flow, scrubbing these costly bubbles away.*

Soot causes the third waste. It, too, insulates and robs you. *By ingenious arrangements of flues and large clean-out doors, the soot in Crane Boilers is easily scraped off into the fire without a bit of dirt in the basement.* A former dirty job is ended and many dollars' worth of lost fuel is recovered for you.

The fourth waste goes into the basement. It is the upstairs you are paying to heat. The Crane two-tone green boiler jacket keeps the heat in the boiler with thick asbestos insulation and ends the heat loss.

These are but four of many advancements. For the sake of economy and convenience, install Crane equipment for coal, coke, oil, or gas. The investment will pay you rich dividends.



Crane Square Boiler



Crane Round Boiler

Here are some more reasons why you will pay you to install a CRANE HEATING SYSTE

1 These boilers will do justice to any scheme of basement decoration for den, play-room, or work shop. Their jackets are extra heavy and properly insulated.

2 The experience of Crane Co. in almost a century of manufacturing has been applied to the making and selecting of the complete equipment from the valves, regulators, gauges, and try cocks to the combination thermometer and altitude gauge.

3 Clinkers cannot force the grates out of position. Patented non-jumping sockets keep them in place.

4 Sluggish water travel permits the formation of insulating films of bubbles within ordinary boilers. Crane patented fast-water circulation eliminates film and increases heat transfer.

5 The ceiling heating surface exposed to the fire and flue gases is greater than in ordinary boilers. As a result, more surface is exposed to the heat with a s in fuel.

6 The important job of cleanin flues is no longer troublesome or The soot is easily raked forward, wh drops into the first pass, and then p backward until it falls into the combu chamber.

7 Convenience has been added grate shaker bar locking device. a tap of the foot, you can move it easi shaking or dumping, or locking in tion. The steel shaker bar handle i breakable.

8 There is no need for frequent An extra deep combustion ch holds ample fuel.

9 The flues are arranged for bac forth gas travel, insuring higher bustion efficiency.

CRANE "SUSTAINED HEAT"



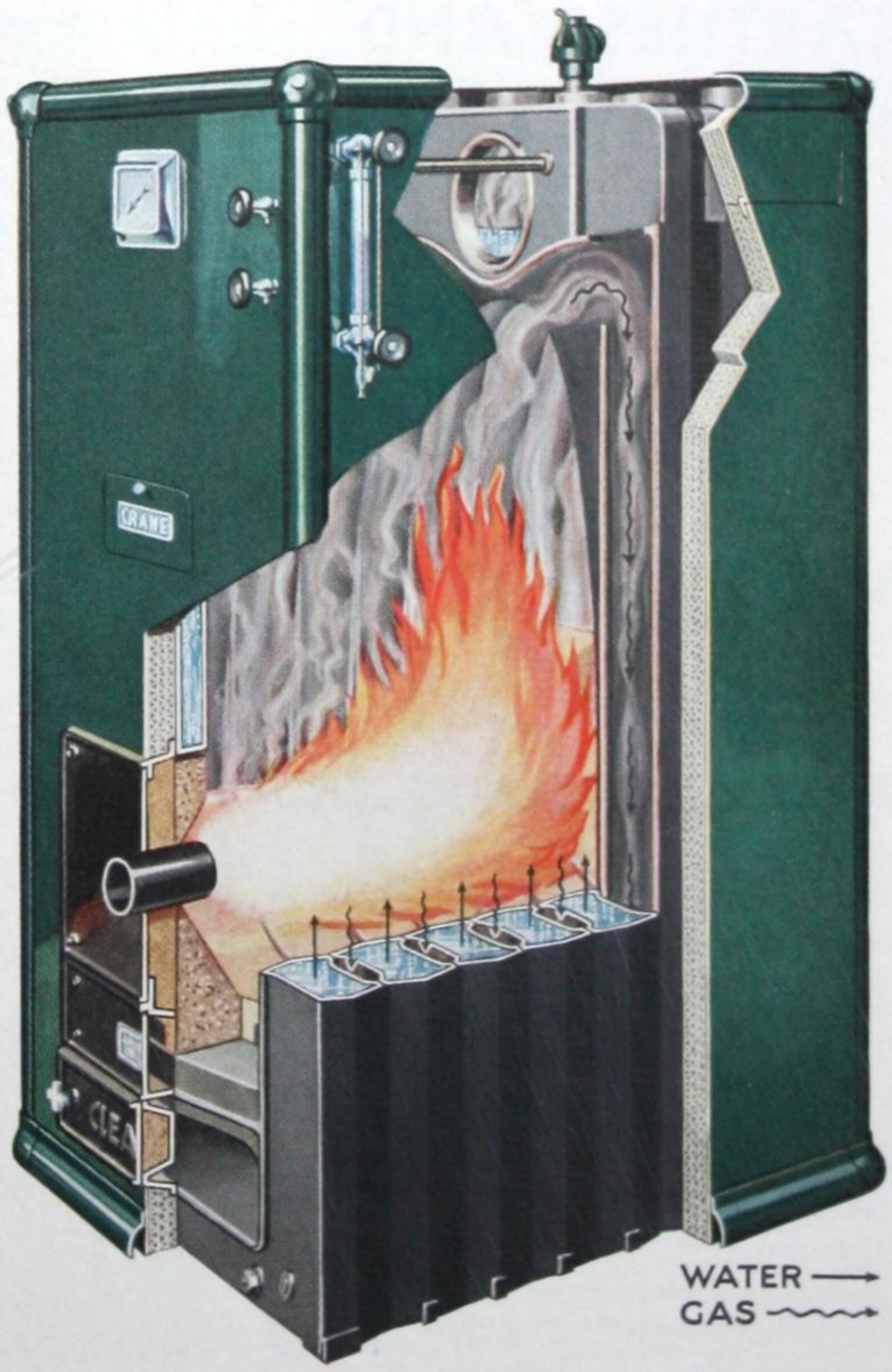
• means peak efficiency with all the conveniences of automatic control

THE early attempts to burn oil for home heating are a great deal like the first efforts to build a motor car. Engineers had to forget all the traditions of carriage-making before the "horseless carriage" became the efficient machine of today. Similarly, true oil-burning efficiency could not be attained until engineers stopped trying to convert a coal-burning boiler and designed one particularly for oil.

In the usual boiler construction the gases of combustion rise *upward,* pass through horizontal flues at the *top* and then through a smokehood at the back. This traditional design, when used for oil burning, lets the heat escape from the boiler quickly every time the oil burner shuts off.

The Crane special oil-burning boiler stops this loss with the introduction of the "Sustained Heat" principle. After the gases rise to the top of the fire box, they are forced *downward* through flue passes between adjacent sections, instead of being permitted to flow upward and escape through the chimney. These flues run into two horizontal, completely water-jacketed passes at the bottom.

When the oil burner shuts off, the light heated gases rise. There is no escape for them at the top of the Crane boiler. The only way they can pass out of the smokehood is to cool and drop. They cannot cool except by giving up their



to the water. Thus, more b.t.u.'s are absorbed by water in the boiler and a more even comfort temperature is maintained until the oil burner automatically stops.

The individual section water legs are provided with patented water-flow control baffles, and flue passes precisely designed for oil firing. In addition to these special features, the completely jacketed smokehood on the Crane D1 Series boiler is uniquely designed to extract the greatest possible amount of available heat at a point where most boilers fail.

The "Sustained Heat" principles provide you with the ultimate in boiler heating comfort, economy, and convenience.

CRANE D1 SERIES OIL-BURNING BOILER

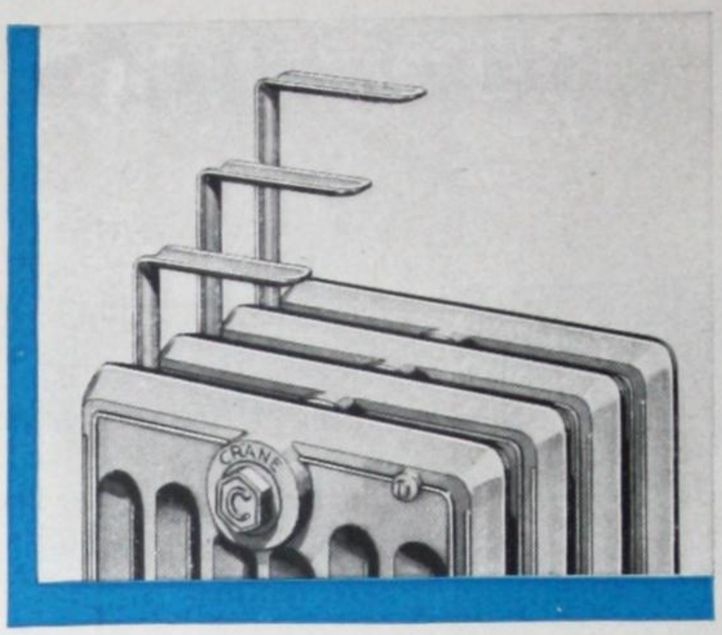
In the distinctive two-tone green jacket, with chromium trimmings, unexcelled for workmanship, performance, and appearance, the Crane D1 Series now meets the need for a *real* oil-burning boiler. When supplied with a Crane-recommended oil burner, the matched unit achieves a new degree of efficiency.

CRANE

HEAT WHERE YOU WANT IT

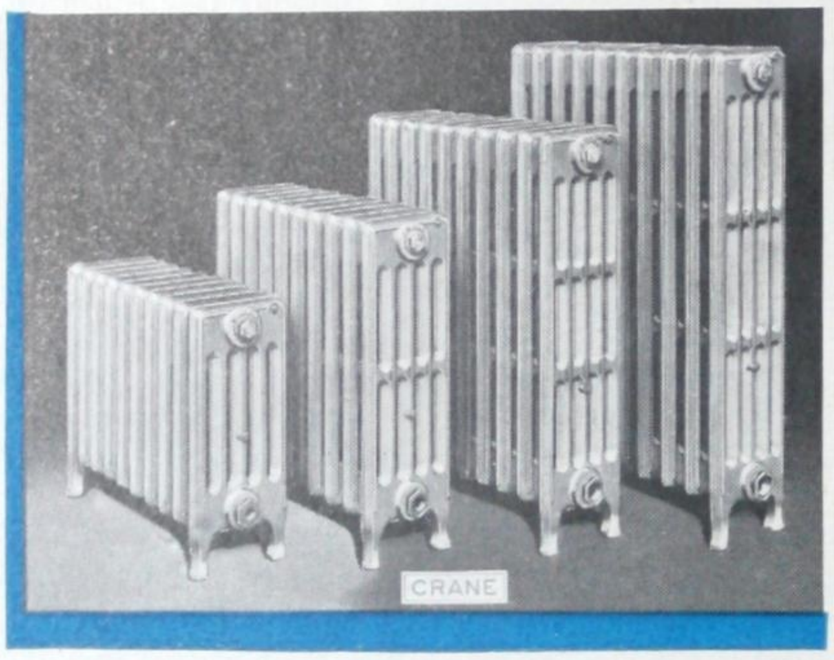
• the Crane Invisible Shield

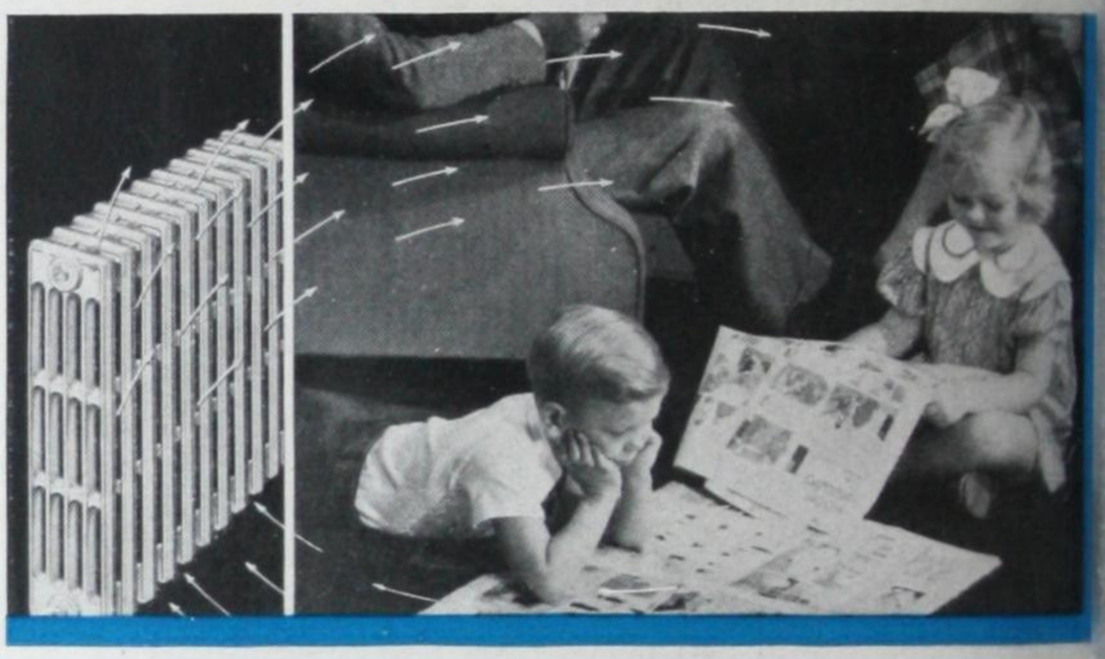
Let's analyze an average heating system . . . see if Crane Radiation won't help you get more good from the fuel you burn . . . make rooms more comfortable in every part of your home!



Radiation is heating . . . Cra Radiation is controlled heating . putting heat where you need it mo Directed Radiation is the first tempt to control direction of he currents away from the ceiling . where heat is ineffective and was ful . . . and direct it outward into t room where heat is wanted!

You'll save a handsome cleaning a decorating bill the very first seas with Crane Invisible Shields! Th cost but 15c each retail.





SMARTNESS AND EFFICIENCY MEET

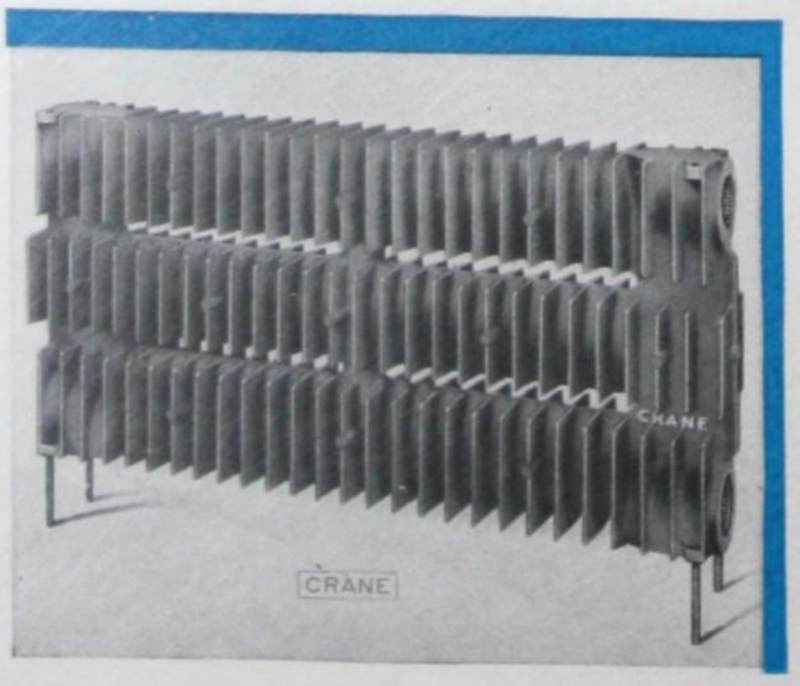
• in Crane radiators

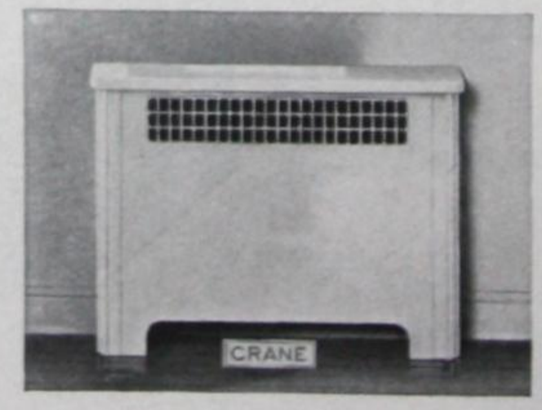
Crane cast-iron radiators are masterpieces of styling and en neering. 1. Their beauty is enhanced by Crane's invisible ass bly—the durable, secure screw-nipple construction. 2. This c struction also simplifies the addition or reduction of the num of sections in each radiator. 3. Advanced design increases ra tion per square inch, effecting improved and lower cost heati There are styles and sizes for all types of buildings and all v and floor spaces.

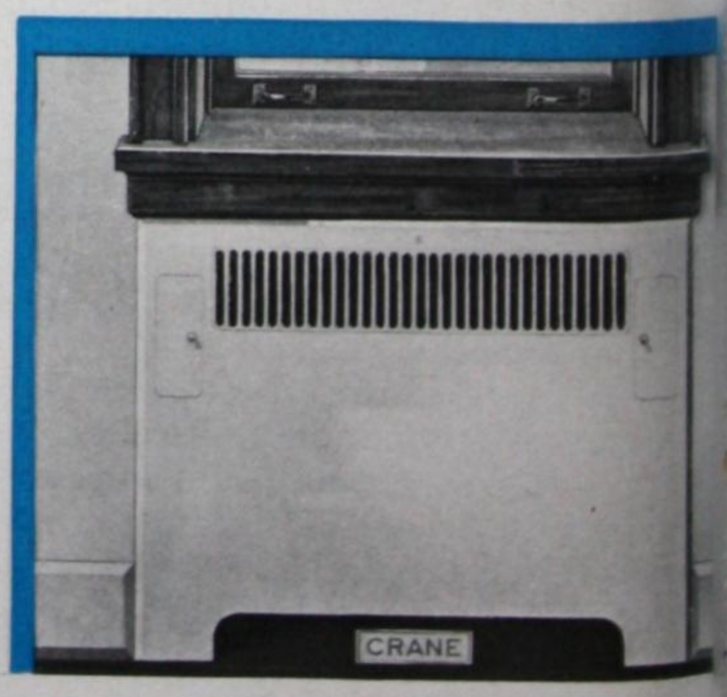
CRANE CONCEALED RADIATORS

• the modern note in heating

The trend of today is toward concealed radiators. Out of the way, behind a grille, they enhance the symmetry of the room and save space. Crane Concealed Radiators give maximum heating output. Made of sturdy cast iron, their efficiency is unaffected by expansion and contraction. Large waterways insure rapid circulation (see illustration). Their inte construction eliminates the danger leaks from welded or soldered joints. variety of enclosures is available to monize with every architectural and orative plan.







INSIST ON CRANE QUALITY

Valves, fittings, and piping

A heating system is never better than its weakest part. Full value from a good boiler and efficient radiation can be destroyed by inefficient valves and fittings. For long, trouble-free service and the greatest ultimate economy, insist on the use of Crane materials throughout your new heating system.



No. 112

Brass steam radiator valve, nickel plated.



No. 233

Brass forced feed hot water modulating radiator valve, nickel plated.



No. 124

Brass steam radiator valve, nickel plated.



No. 226

Brass quick-opening self-adjusting steam radiator valve, nickel plated.



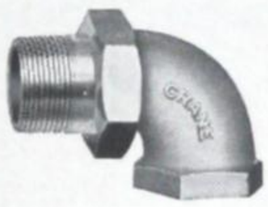
No. 232

Brass self-adjusting modulating steam radiator valve, nickel plated.



No. 174

Brass hot water radiator valve, nickel plated.



No. 192

Brass union elbows for hot water, nickel plated.

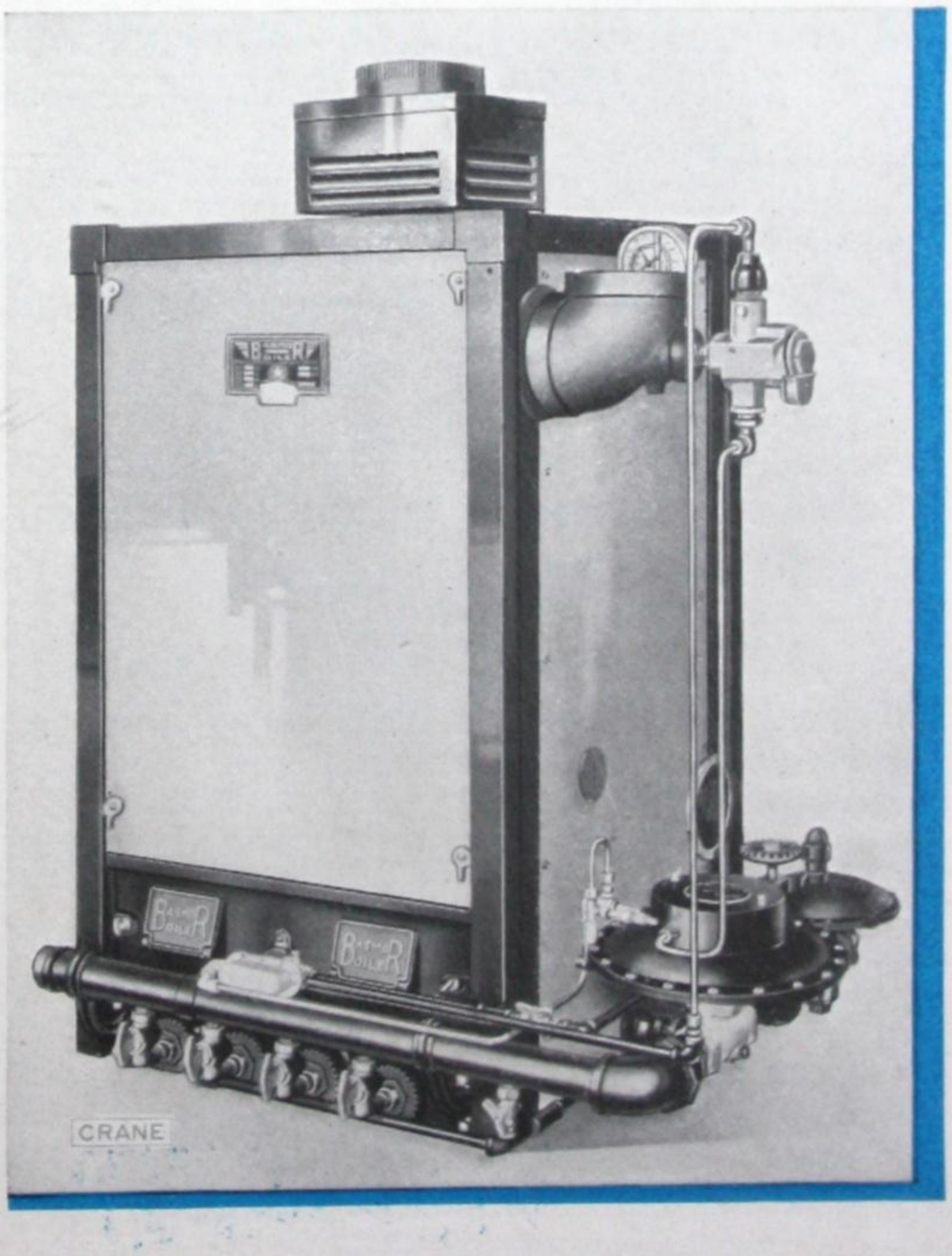


No. 206

Compression air valve for radiators, nickel plated.

BASMOR GAS FIRED BOILERS

Your decision is to enjoy the cleanliness and convenience of gas heat, it will prove a real economy in the end to install a boiler specially designed for the purpose. The Basmor meets every requirement for house heating and domestic hot water supply with either manufactured or natural gas. The efficiency of this boiler is exceptionally high, assuring you the most heat for every dollar you spend for fuel. The operation is completely automatic—you can tend it from your easy chair in the living room.



CRANE

RUNNING WATER

• for suburban
and country homes

Will your new home be in the country or suburbs, away from city water mains? Then one of your first interests will be running water from pressure.

Wherever your property, you need not do without this most important of the conveniences which every city dweller demands and enjoys.

There is a Crane system with every modern refinement and backed by a 79-year reputation to supply you with running water.

If there is a lake, spring, or cistern at hand you probably will be able to use a Crane Shallow Well System. If it is necessary to drill more than 22 feet, a Crane Deep Well System will provide water under pressure at a remarkably low cost.

In the Crane line there is a system for every domestic and farm need. For installation where electricity is not available, there are Crane pumps powered by gasoline motors.

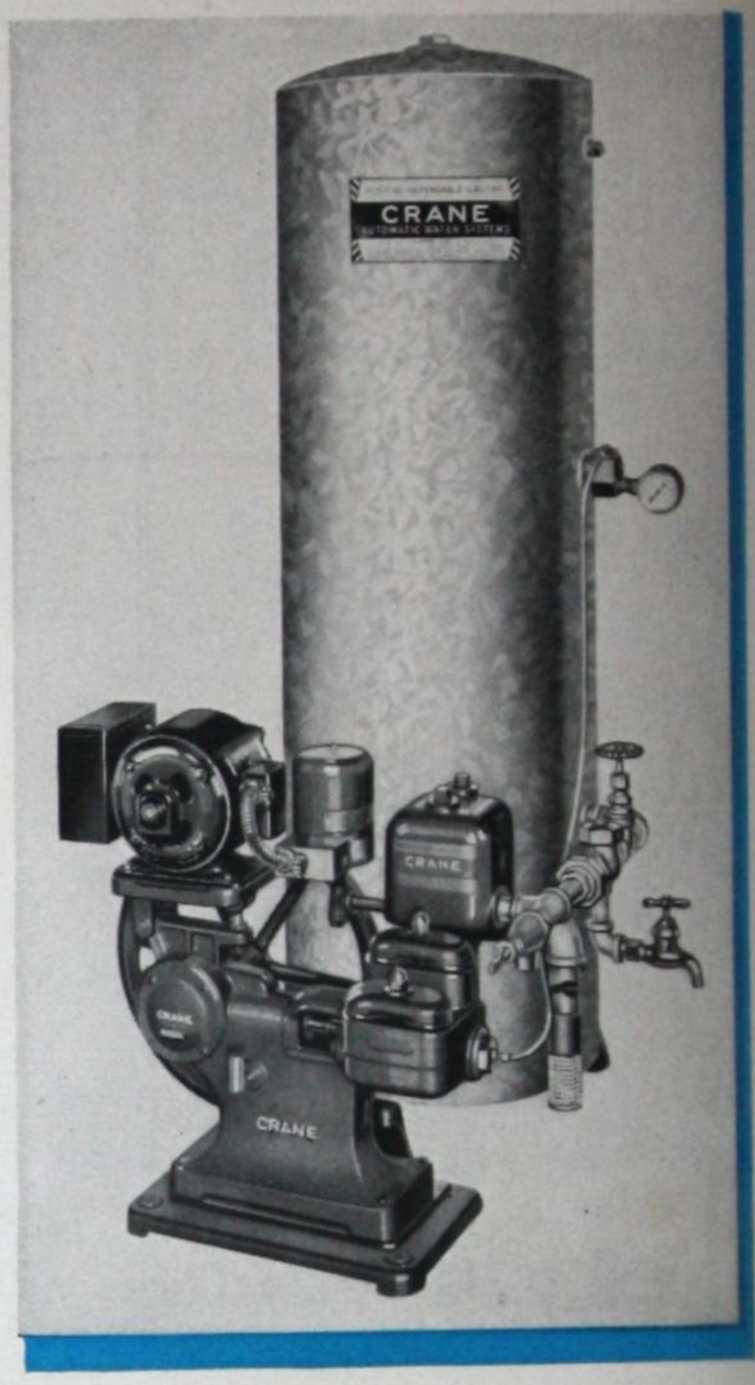
You will find that an investment in Crane supplied running water is one of the most advantageous that can be made.

It will assure you the luxury of having all the running water you need on tap for washing, bathing, shaving.

It will bring you the calm assurance that, should a fire break out, you can fight it with its greatest enemy—water.

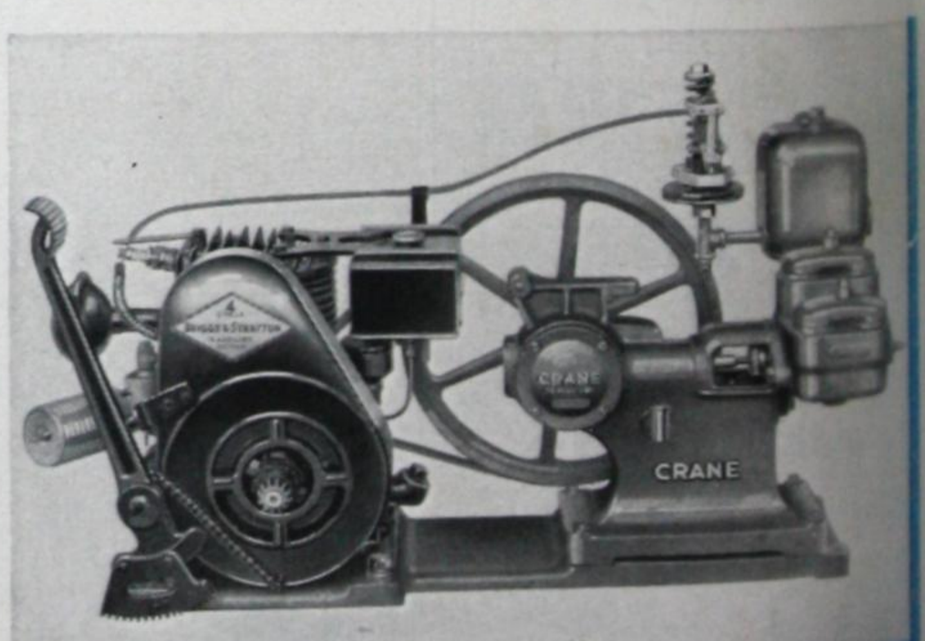
If you will have live stock, plenty of fresh running water will pay a profit. Your stock will prosper, weigh more, sell for more; and you will save time and labor.

Finally, the Crane name and Crane service are your assurance of constant satisfaction.



S-25 with Vertical Tank—250 gallons per hour

Crane Shallow Well System complete with storage tank, electric motor, automatic pressure switch, relief valve, air volume control and all necessary fittings. A highly efficient provider of water for home and farm.

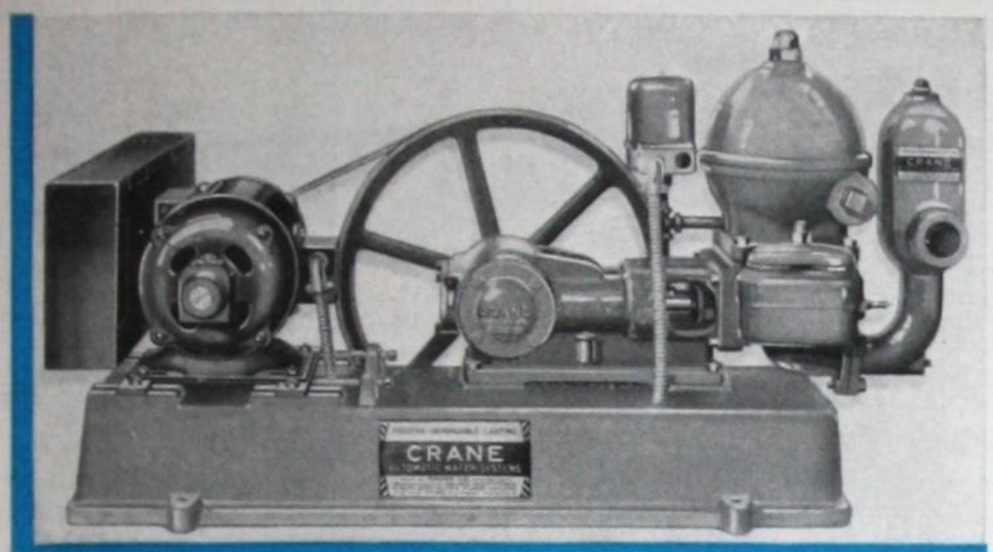


Crane System with Gasoline Engine

All models of Crane Water Systems may be equipped with gasoline motors for use when electricity is not available. They are 4-cycle, single cylinder, forced air-cooled, with high tension, moisture-proof magneto for easy starting. These motors are strong, dependable, and exceptionally economical to operate. A circuit breaker switch should be used to cut off motor economically.

CRANE SYSTEMS

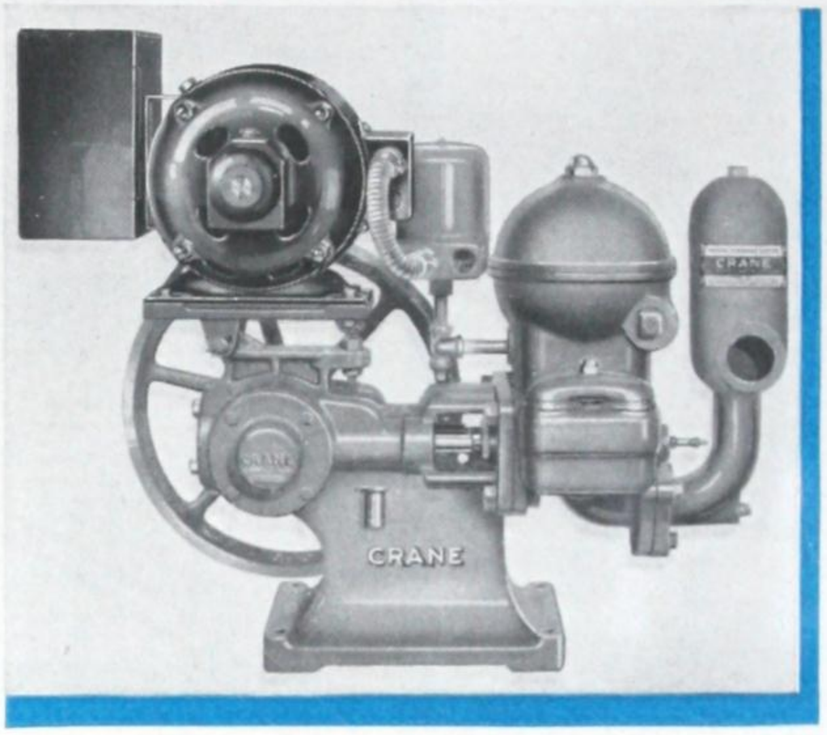
- pump more water per unit of power



Models S-80 and S-100—800-1000 gallons per hour

LARGE VOLUME SHALLOW WELL SYSTEMS

These models give large pumping capacities with smooth and quiet operation. They have been designed for large domestic, farm, and light irrigation use, etc.



Models S-40 and S-50—400-500 gallons per hour

SHALLOW WELL DUPLEX PUMP

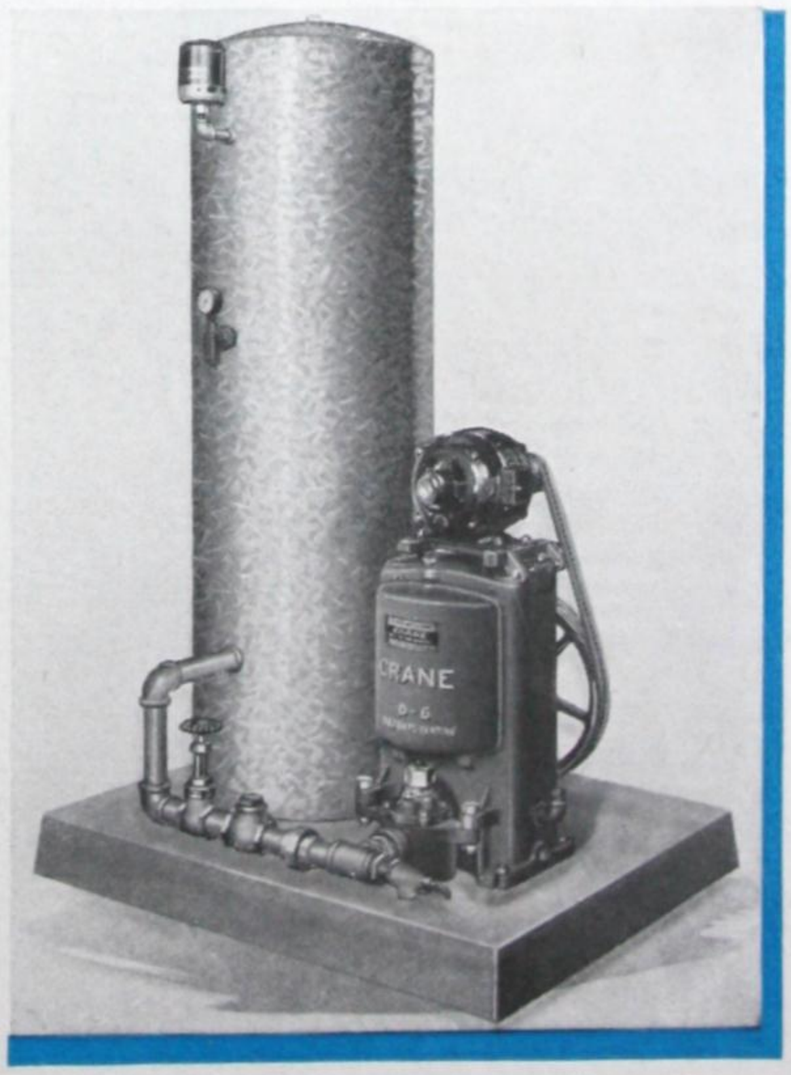
This duplex type of pump, which is equipped with four intake and four discharge valves, delivers a greater quantity of water at a more even flow than the single cylinder model.



Models D-6 and D-9—160-900 gallons per hour

The Crane Deep Well Pump with electric motor. Pleasing in appearance, simple in operation, strong yet light in construction, with accessible parts and abundant lubrication.

The New Crane Deep Well Water Systems enable you to pump water for kitchen, bath, heating system, truck garden, stock, poultry, from 500-foot depths as easily as you might draw it from your cistern. Crane Co. has set a new standard in combining high water delivery per unit of power with simple rigid and durable construction.



CRANE

CRANE GAS WATER HEATERS

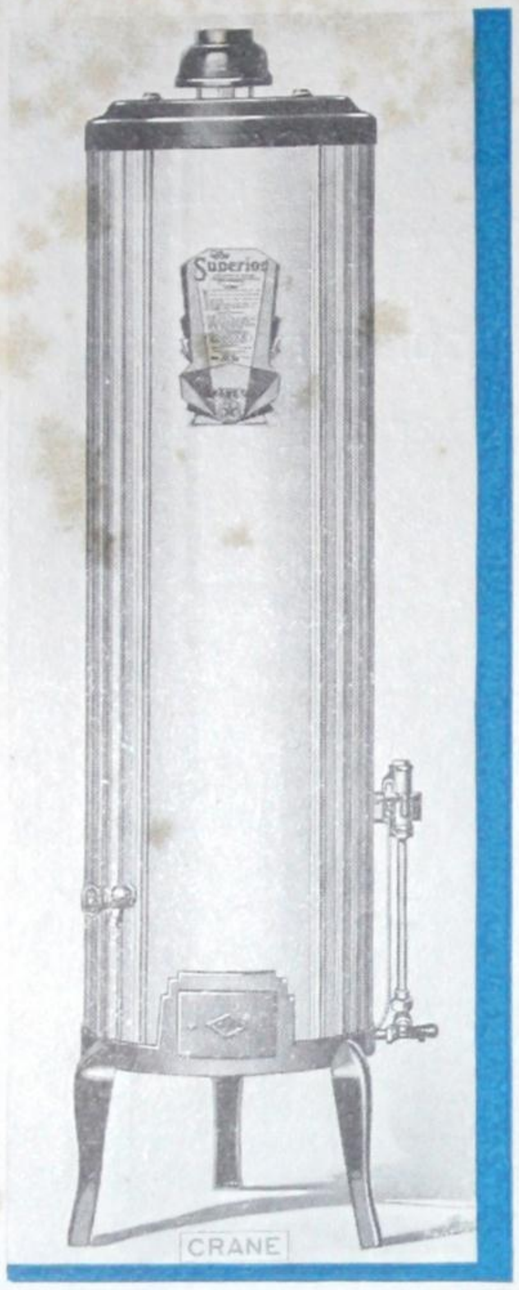
• Keep Hot Water Always Ready

Certainly, in your new home, you will want hot water. Not a scanty supply. Not the "light-it-and-wait" kind. But piping hot water at the turn of a faucet, all you want, whenever you want it, 24 hours a day, 365 days a year.

Steaming hot water helps in dish washing, aids in the laundry, encourages the habit of cleanliness with the children. An abundant supply saves the annoyance of finding the water running cold just when it is needed most. And when sickness strikes, having hot water waiting even in the dead of night is a blessing.

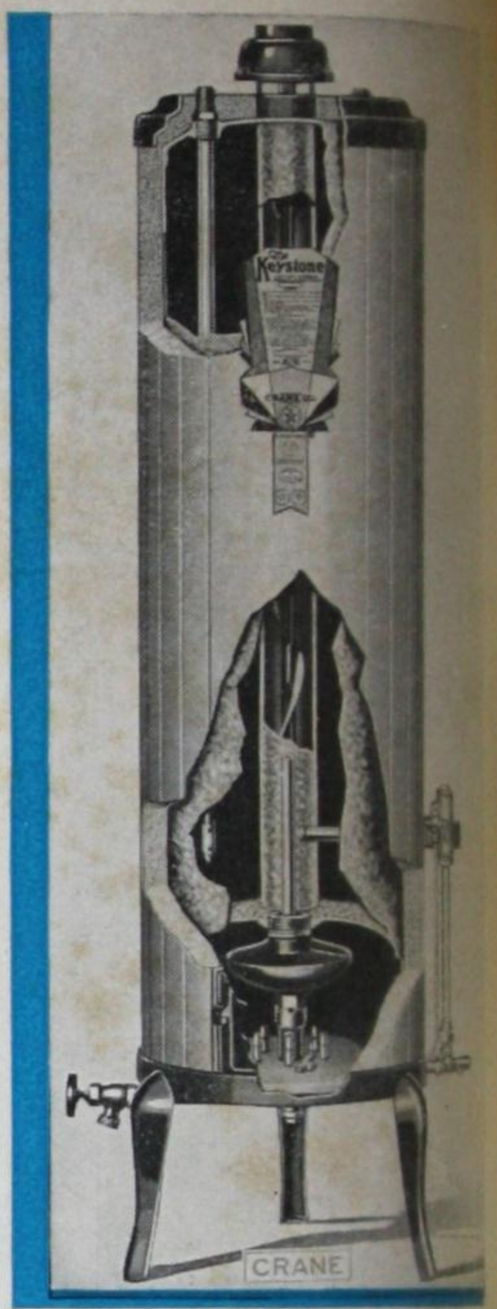
Fortunately, the luxury of such hot water service is economical. Crane Gas Water Heaters are more careful of gas bills than you could be. The gas shuts off the instant the water reaches the exact degree determined. It turns on the split-second it is needed. The operation is thrifty as only a fully automatic, fully insulated water heater could be.

There are styles, prices, and sizes of Crane Water Heaters for every home. Get complete information about them before you decide.



Crane Superior Water Heater

Moderately priced, but well constructed and fully automatic.



Crane Keystone Water Heater

Extra heavy construction with exclusive Crane spreader burner for rapid and economical heating.

SOFT WATER

• a luxury that pays for itself

Do you remember the days way back when there were rain water cisterns? Unsanitary, yes. But what rich, foaming soap suds! How good your skin felt! How easy the laundering was!

Soft water smooths the texture of your skin. It makes hair radiant. Glassware sparkles. Dishes are cloudless. Linens come out snowy white. Food tastes better. Boilers, freed from scale, are more efficient. Piping does not clog up, nor do faucets need constant repairing.



Soft water saves soap, clothes, fuel, and plumbing repairs. In fact, a Crane Warlo Water Softener saves so much in an average home that it will pay for itself in eighteen months.

Crane Warlo Water Softeners will deliver softened water to every faucet in your new home. They are built for ease of control, efficiency of operation, and long life. They need no attention except a periodical flushing with salt (regeneration). This is a simple operation, which any one can do. There are no gadgets to confuse. Nothing to get out of order.

Surely, as it will pay for itself, you will insist on a Crane softener when you build.

DEPEND ON CRANE

When you choose plumbing and heating equipment, it is not like buying furniture. Replacement is difficult and costly.

Much of the piping and fittings is hidden within the walls and buried under floors. Failure of any part usually means a bill for repairs far greater than the slight difference between quality and cheap equipment.

In trying to economize, some home owners accept a boiler that is too small and radiation that is inadequate. A cold home and forced firing that wastes fuel results. Others save a few pennies on faucets and wastes, and spend dollars for replacements later, to say nothing of the annoyance in the meantime.

To avoid these and many other pitfalls, employ reliable Plumbing and Heating contractors who recommend Crane materials. They will gladly advise you on any and all phases of heating and plumbing.

Back of them stands the 80-year Crane reputation, the quality of Crane materials, the satisfaction of Crane service, and the reliability of Crane Counsel. The combination of reliable products and reliable workmen will assure you the utmost in convenience, comfort, sanitation, and true economy for your home, whether it is a modest bungalow or a large town house.

Crane Co. maintains 160 Sales and Exhibit Rooms, where the latest Crane designs may be seen. One is near you. See the inside of front cover for locations.

CRANE

MAIN OFFICES: 836 SOUTH MICHIGAN AVENUE, CHICAGO

FOR THE

HOME

OF

TODAY

CRANE

PLUMBING AND HEATING

WATER SYSTEMS, WATER HEATERS, WATER SOFTENERS

Fenestra

BLUE BOOK OF STEEL CASEMENT WINDOWS

DETROIT STEEL PRODUCTS COMPANY
2250 E. GRAND BOULEVARD, DETROIT, MICHIGAN
OLDEST AND LARGEST STEEL WINDOW MAKERS IN AMERICA



Stark tree trunks,—sharp autumn winds,—but through the somber, early dusk gleams warm light from many-paned Fenestra Casements. There's real welcome in the fascinating sparkle of these unusual windows,—cozy comfort in the snug fit of their steel frames,—added security from cold and storms. And in the summer, Fenestra Casements with swing leaves opened wide, catch even the faintest breezes.

Winter comfort. Summer ease. Year round beauty.

Fenestra
Residence Windows



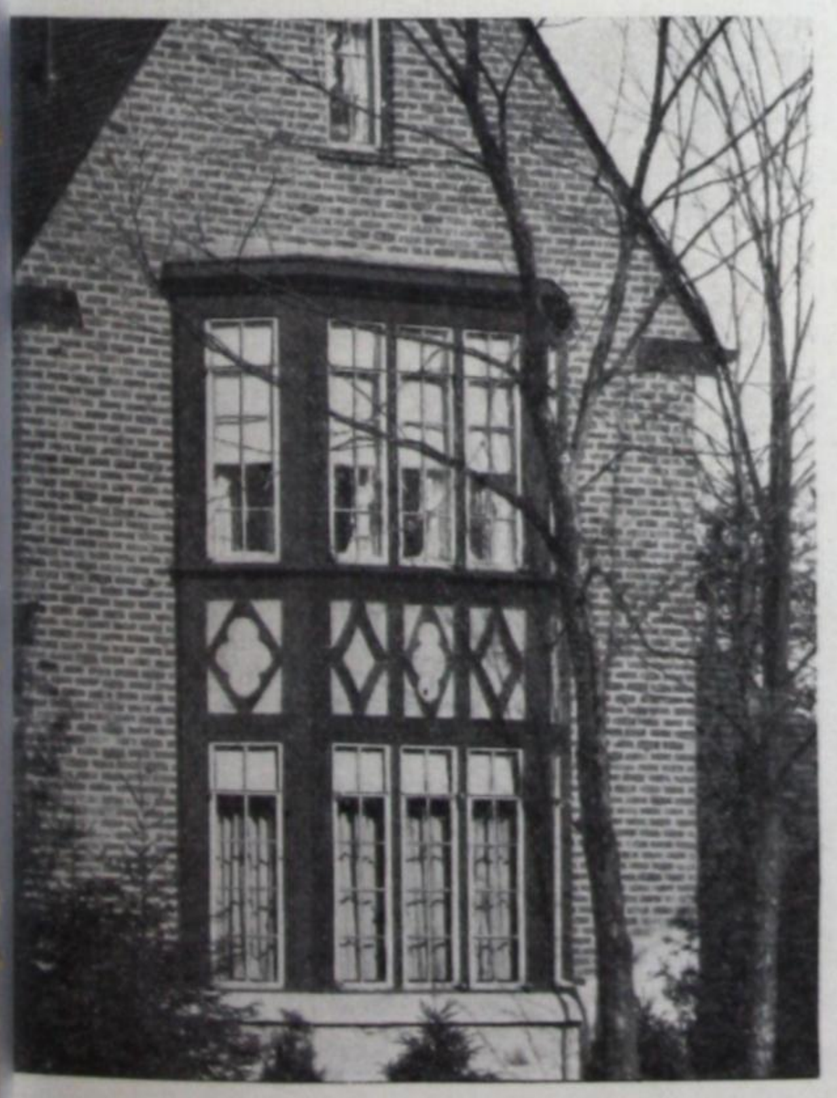
ugh the window of the present
my life must come to me!
lom, happiness and love, and
ture's beauty I shall see
as they near my casement;
en my heart shall bid them stay,
God's blessings always enter
rough the window called Today.

—O. Lawrence Hawthorne

ou should give the windows of your new ome more than passing thought, for they e made to add much to your future pleasure omfort.

ewed from the outside, windows can affect lesign and character of the entire building. are the features which give expression to ome. Their shape, size and location can make a house look prim or stately, hospitable or cozy. Windows make the first impression on the passerby in the street or the visitor beside the hearth.

Viewed from the inside, each window frames a picture, charming in a way that wall-hung pictures never fully equal, for the varying scenes are painted by Nature in the bright colors of the out-of-doors.





HOW WINDOWS MAKE HOUSES "LIVABLE"

If you have an architect—and you should have one by all means—he will know many of the finer points about windows from long experience and he will welcome suggestions from you that show him your window preferences and the results you hope to obtain. If you do not employ an architect, that is all the more reason why you should study the design and arrangement of your windows very carefully.

Tall, narrow windows tend to make a house look high, while wide, low windows tend to make it look broad. Extremes in either direction usually should be avoided.

The tops of your windows usually should be several inches below your ceiling. This gives a much better effect than to carry the windows up tight against the ceiling. Also, try to keep the tops of your windows on a line. If the window heights must vary, try to let the variation come in the height of the sills above the floor. This is not always possible but it is a good thing to have in mind.

Group your windows. Place two or three or even four or five together, side by side. Single windows sometimes are hard to space nicely and if



you use enough of them to give proper light and air they reduce the amount of free wall space and often make it hard to place the larger pieces of furniture, such as davenports, pianos and book cases, just where you want them.

The height of window sills above the floor is something to consider. There is no set rule, but 24″ to 30″ is a good height if you plan to sit nea the windows. This allows space under th window for a radiator or a window seat or both

Always try to place your heating units— radiators, warm air registers, etc.—under or ne the windows wherever possible, to warm the a that comes in contact with the glass.

Don't forget that the lower part of any windo admits light to a small portion of the room ne the window but the upper portion of the windo lights the back of the room and therefore is equal or even more importance. This is wort consideration when planning shades and draperie

Remember that cross ventilation in a roo always is desirable. Therefore try to place yo windows so there will be a sweep of air acro every room. If your room is in a corner of t building, even a small window in each of the tw outside walls is better than one large window one wall and no ventilation whatever in the othe

Residence windows usually are of the Doub Hung Type or the Casement Type. Double Hu Windows slide vertically and usually are counte balanced by weights concealed in the jamb Casement Windows are hinged at the jambs swing in or out. Out-swinging Casements a much preferable as In-swinging Casements a hard to make tight against driving storms a the in-swinging portion tends to interfere wi draperies. In-swinging Casements have scree on the outside and Out-swinging Casements ha screens on the inside.

Steel Casements made by the Detroit St Products Company are called "Fenestra" whi is the Latin word for "window." Germans c it "Fenster" and the French call it "Fenêtre."

Naturally, we think Fenestra Casements ha many advantages for the home owner a builder. These advantages we have tried explain on succeeding pages. On the last pa you will find evidence that some other peop whose opinions are well worth while, agree with

ADAPTED TO EVERY ROOM IN THE HOUSE



Living Room



Dining Room



Breakfast Room

ome people say, "I want Fenestra
ements in my living room, but
not just sure how they will
k out in the other rooms in my
se."

he pictures on this page show
estra Casements used in every
e of room. Other arrangements
adaptations are possible of
rse, but the ones shown are
ly typical.

here are curved headed windows
the stair hall and casements of
ying height and width for the
room; "studio" types for the
; low, broad windows to use over
kitchen sink or above the fire-
e mantel; tall, narrow types for
ets, bathrooms and such places.



Stair Hall

One particular type is handy for use in dormers, breakfast nooks and baths. This type has two swing leaves, each leaf just one pane wide.

The pictures on page 7 show how various types of Fenestra Casements look from the outside when installed in Bays, Oriels, Dormers or Towers.

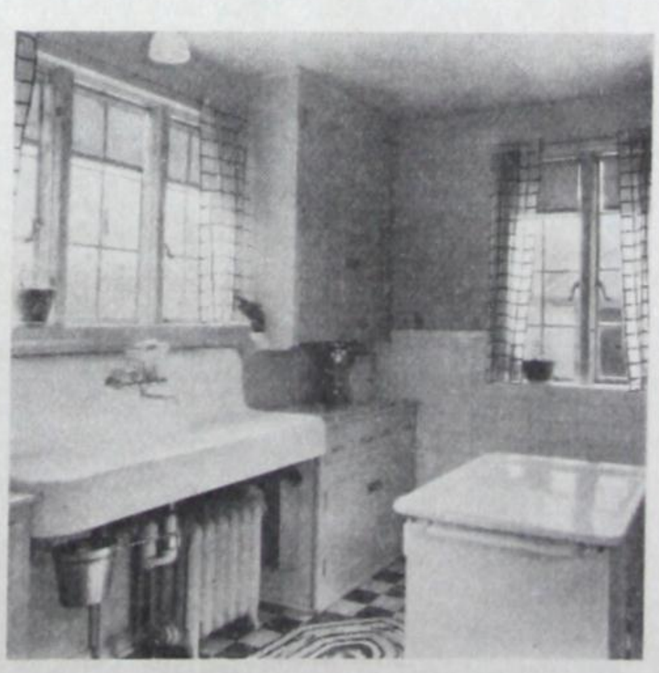
A "Dormer Window," of course, is a window in a small gable which rises from a sloping roof. A "Bay Window" is one that is set in a structure, angular in form, projecting from a wall and extending to the ground as distinguished from an "Oriel" which is a similar structure but carried on brackets.



Sun Room



Bedroom

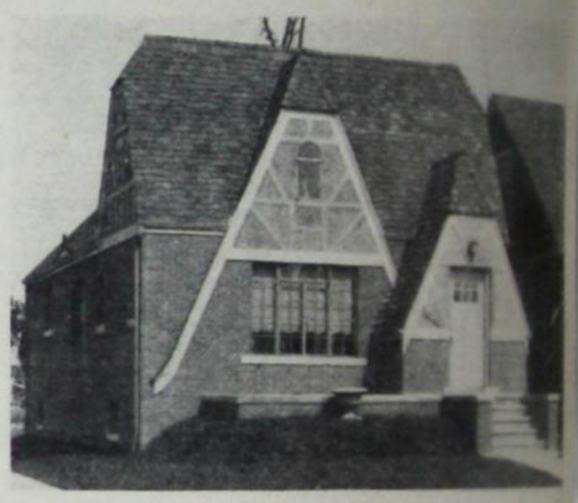


Kitchen

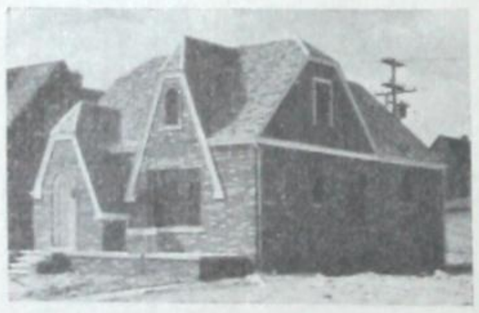
FENESTRA IN SMALLER SIZED HOMES





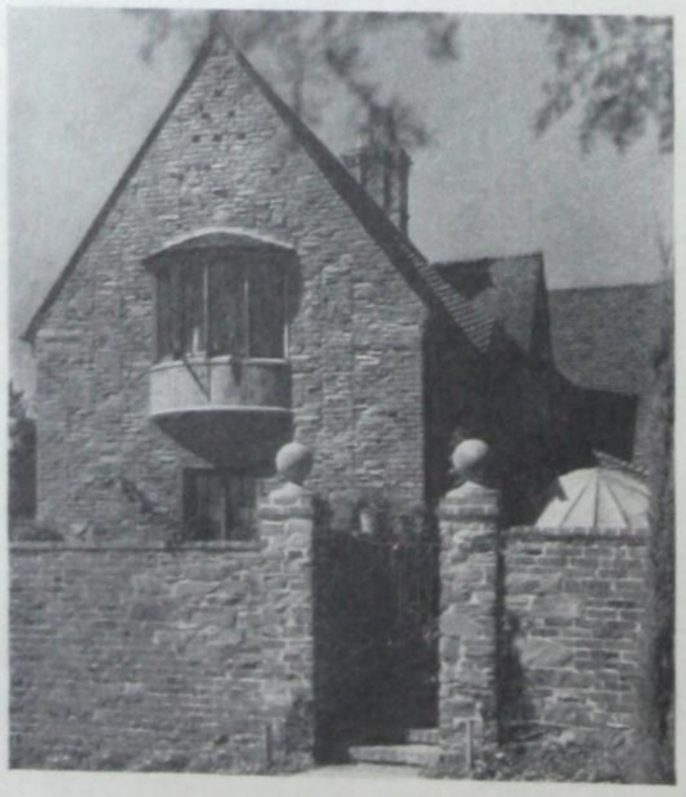


**(See Page 24)









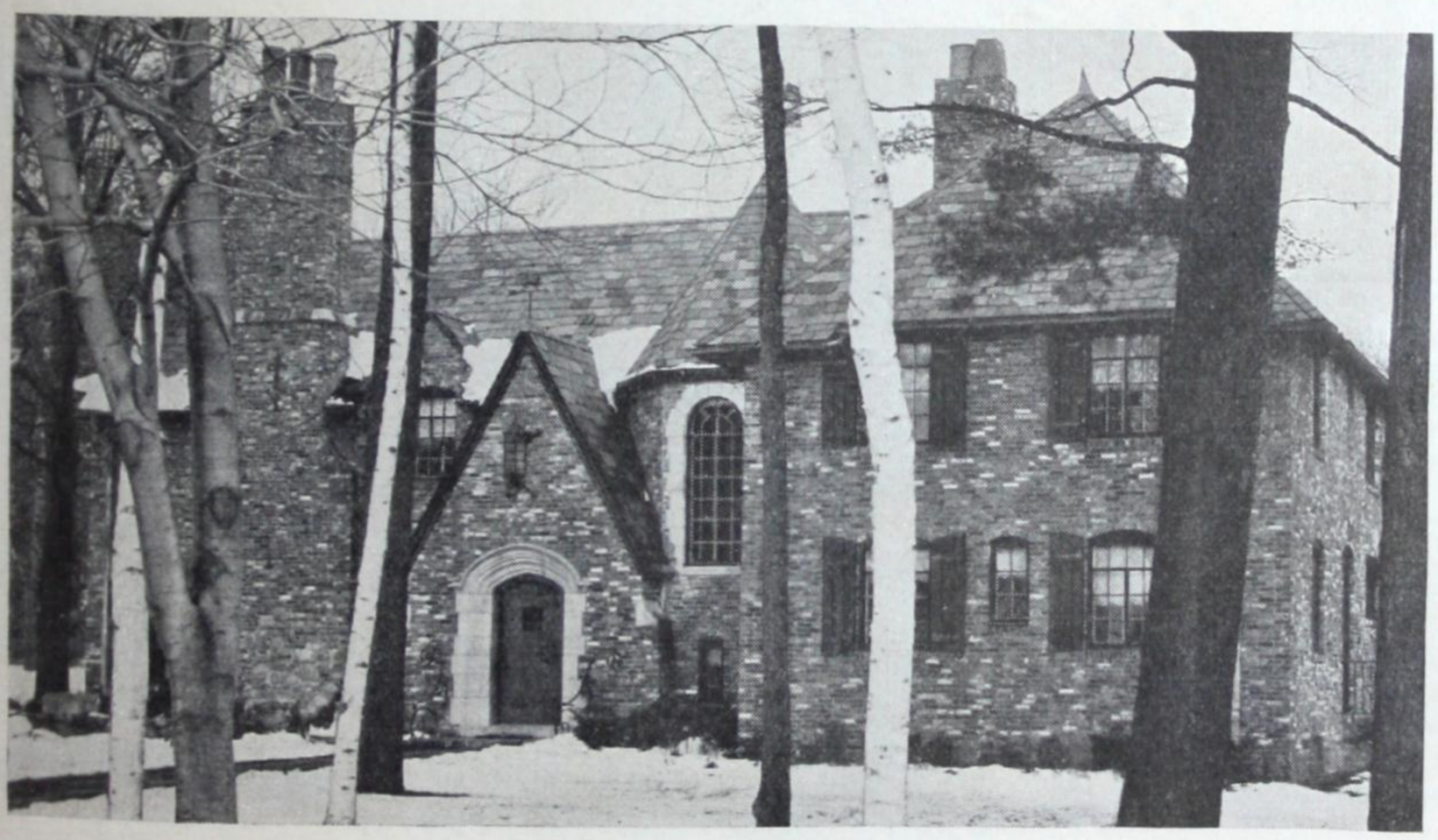


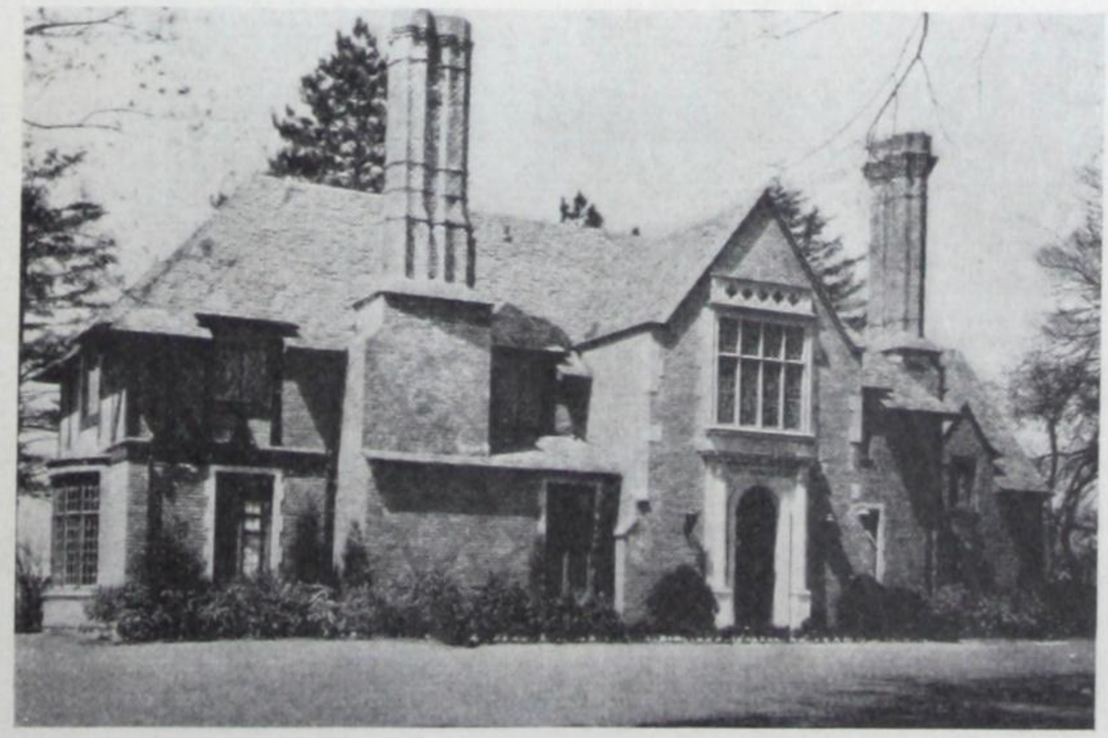
*(See Page 24)

ND ALSO IN MORE ELABORATE ONES



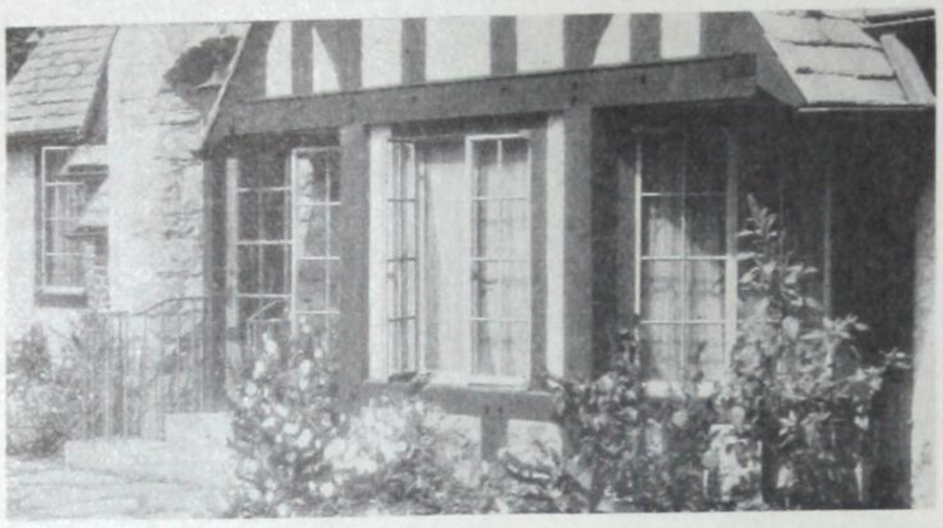


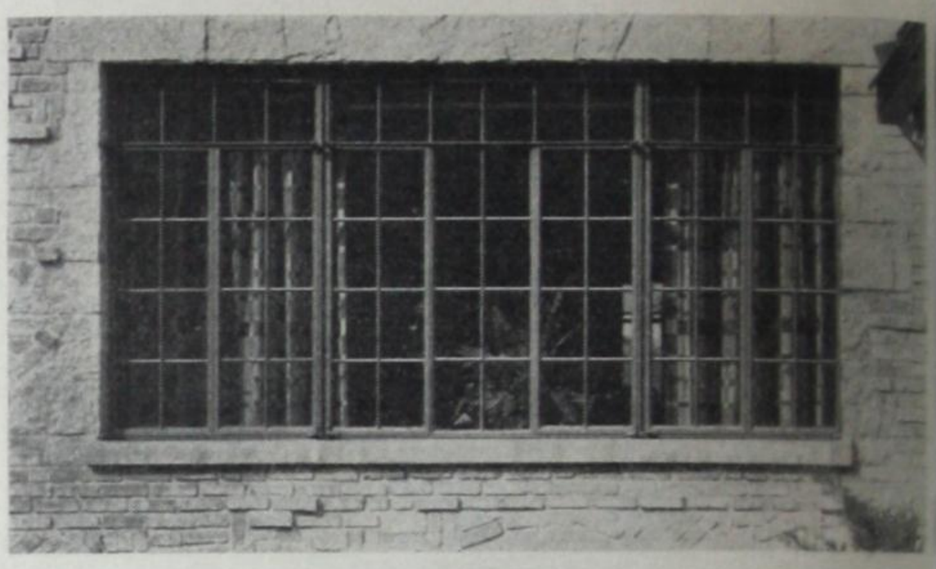




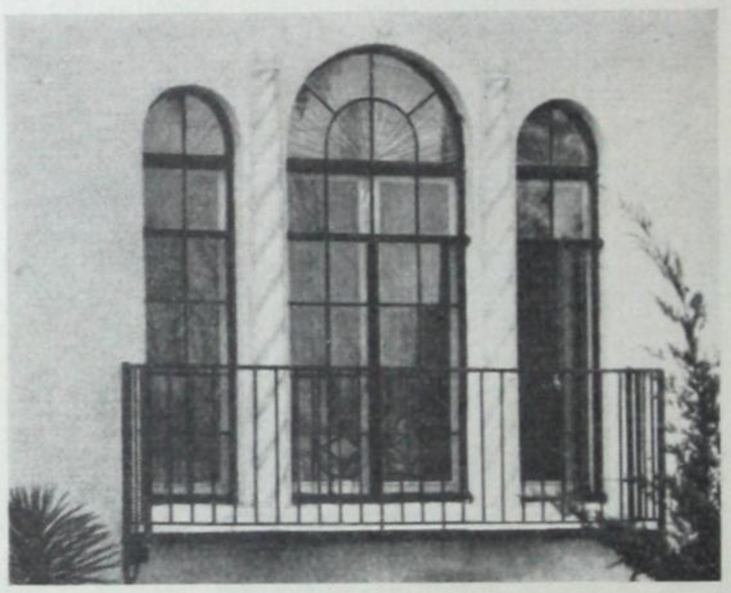


THESE WINDOW GROUPS ARE EFFECTIVE











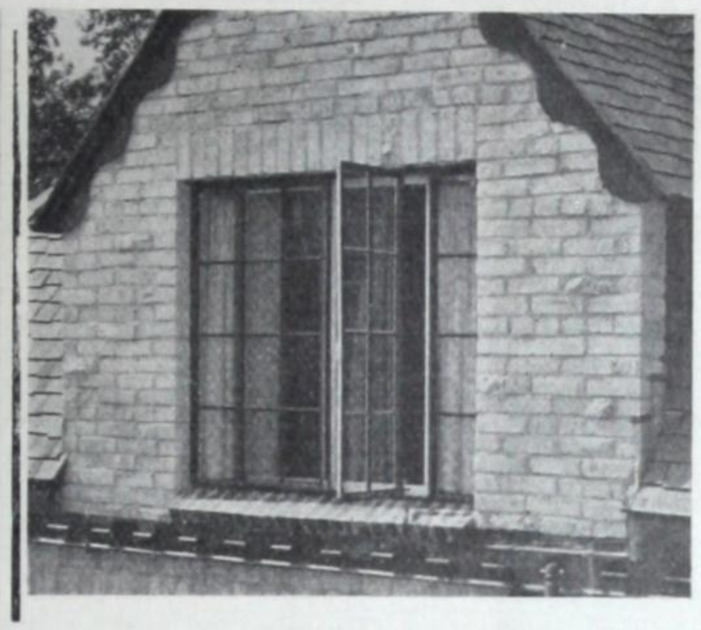






BAYS, ORIELS, DORMERS AND TOWERS

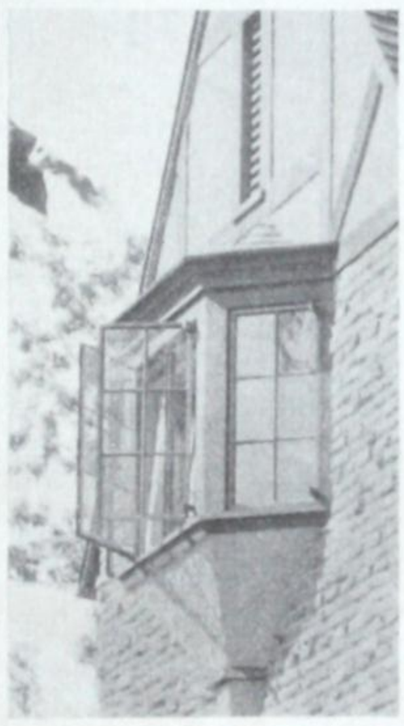


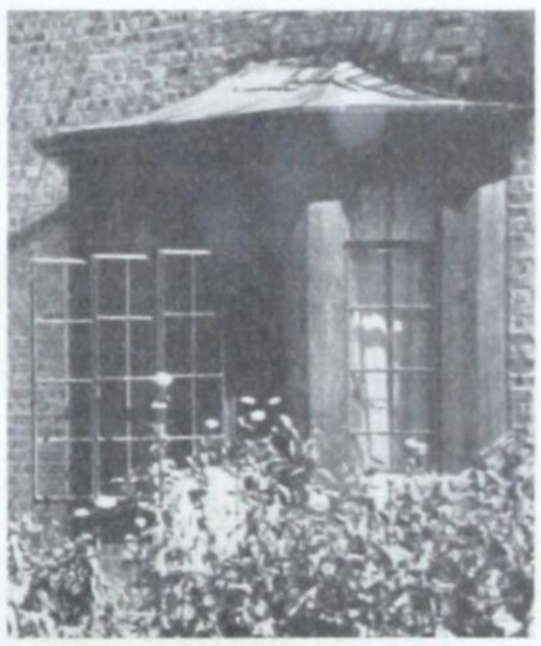




















EASY TO SHADE AND DRAPE PLEASINGLY



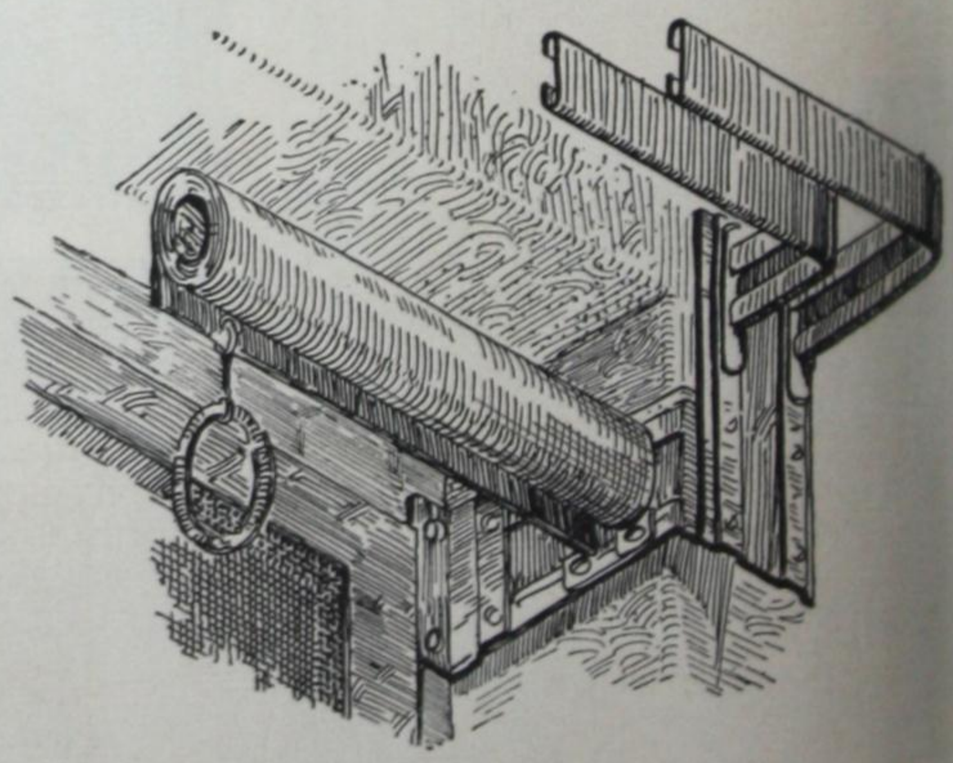


The scheme of window draping for any room should depend much on the character of the room itself. Usually the problem is somewhat simplified by the use of Fenestra Casements because the small panes of glass and the ornamental hardware are themselves decorative and harmonize readily with any treatment of wall space or window opening.

Roller shades and drapery brackets usually are attached to ordinary windows by screwing them to the surrounding trim or plaster. But Fenestra Casements are drilled near the head at both jambs to accommodate any standard bracket so that the draperies and shades may be hung from the window frame itself.

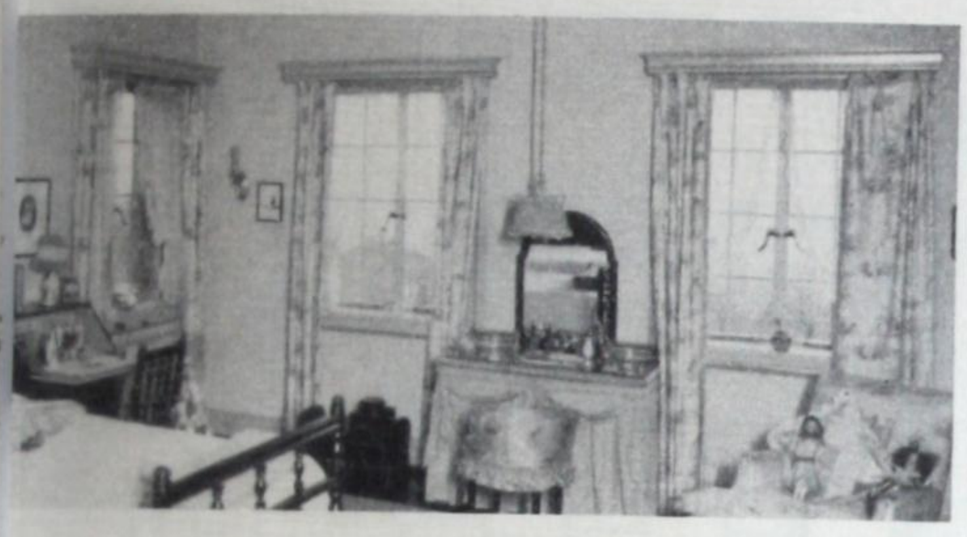
The sketch below indicates the location of these

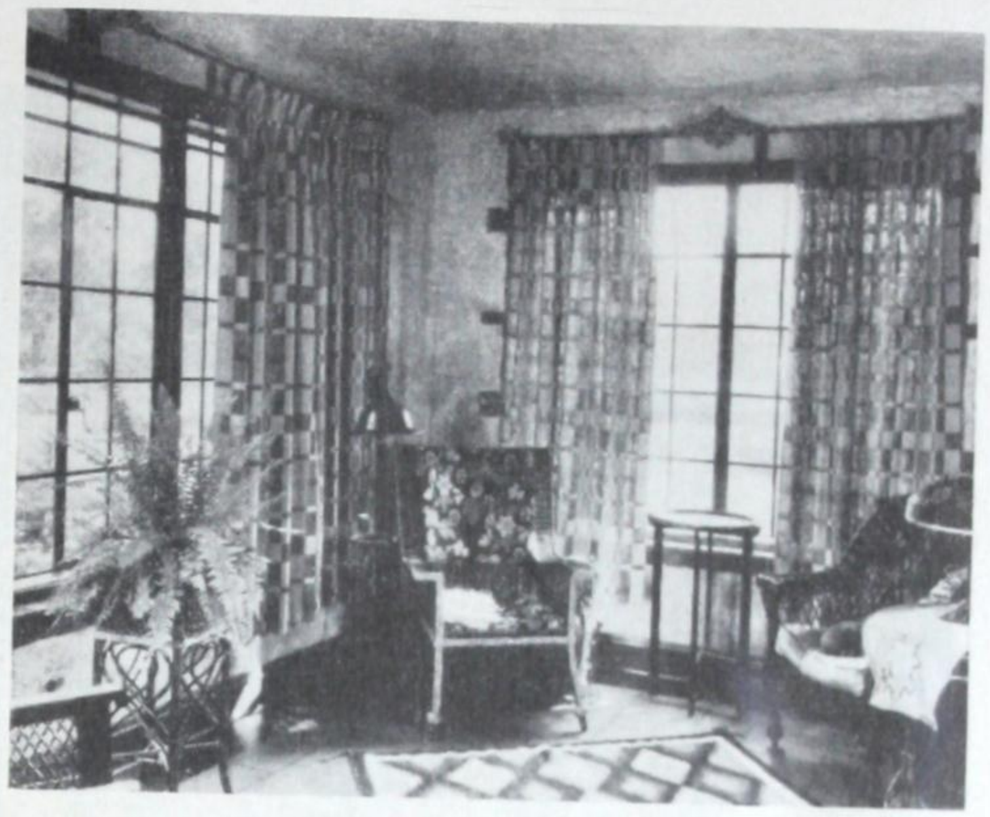




Shade and drapery bracket suggested for Fencraft and Fenwrought Casements

WITH A VARIETY OF CHARMING RESULTS





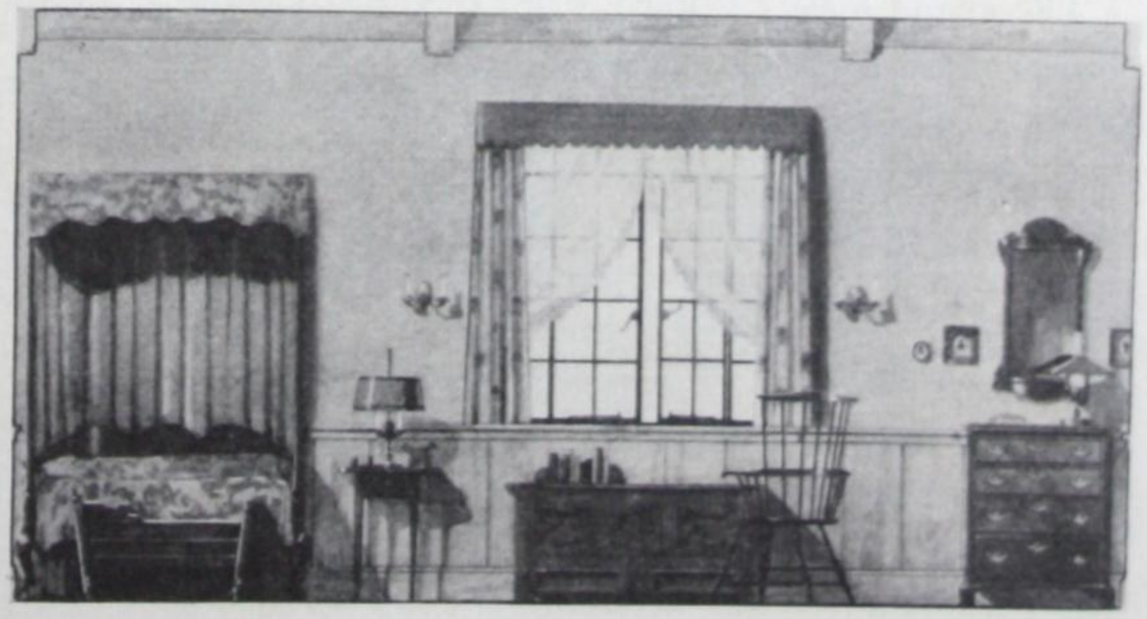
oles and illustrates a combination bracket which nay be purchased locally to support shades, lass curtains and overdrapes.

The pictures on these pages and on page 3 uggest various modes of formal and informal raping. The variety possible is almost endless nd it is astonishing what a change in window ppearance can be created by changing the raperies,—printed or hand blocked linen in one oom,—formal lambrequins in another,—bright alances or figured chintzes in a third.

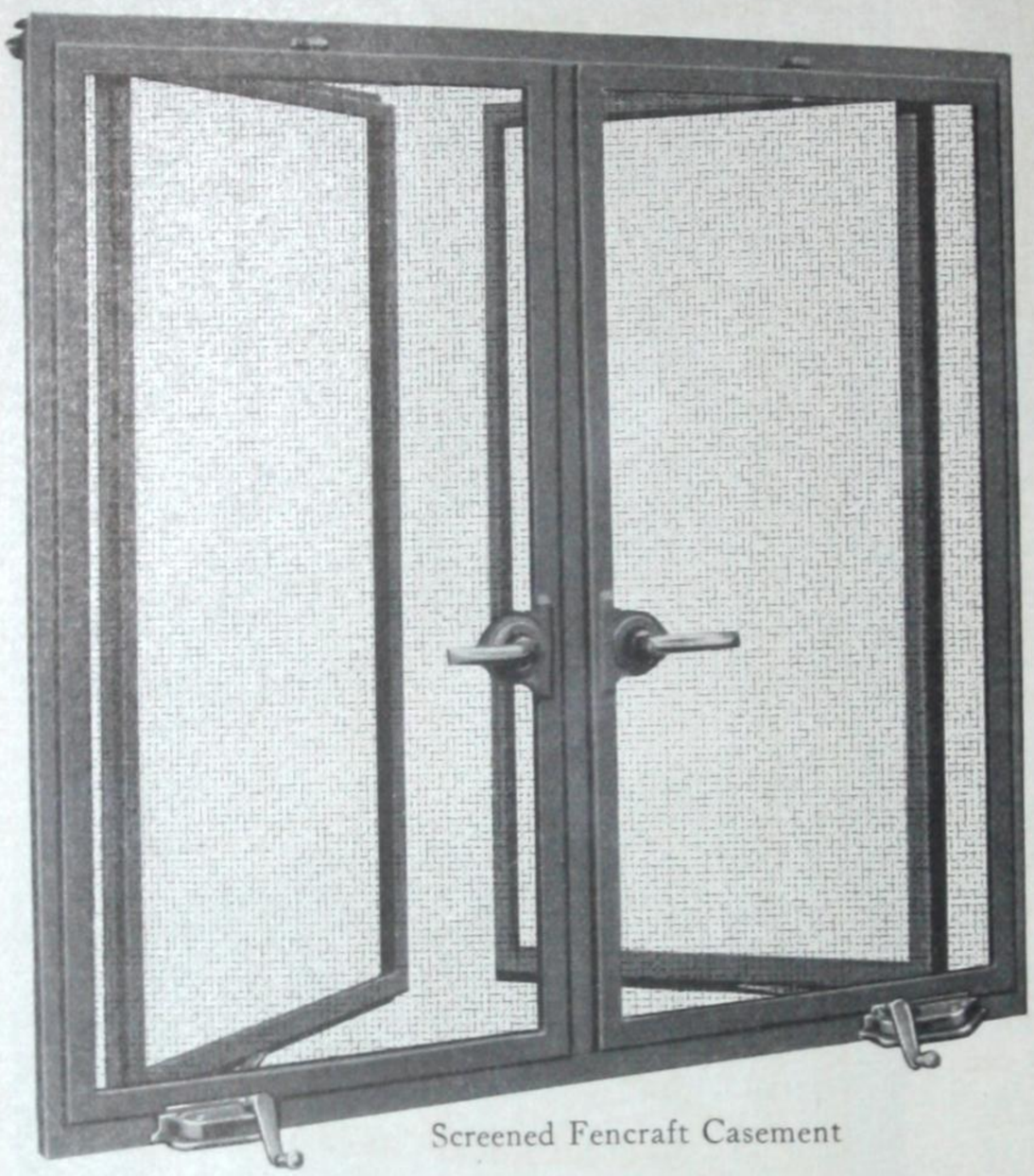
Note the quaintness of the early American edroom in the lower right hand corner with its ide window made to appear even wider by ermitting the drapery to overhang the wall on ither side. A straight valance, patterned over-rapes and simple net curtains tied back, increase he room's apparent severity.



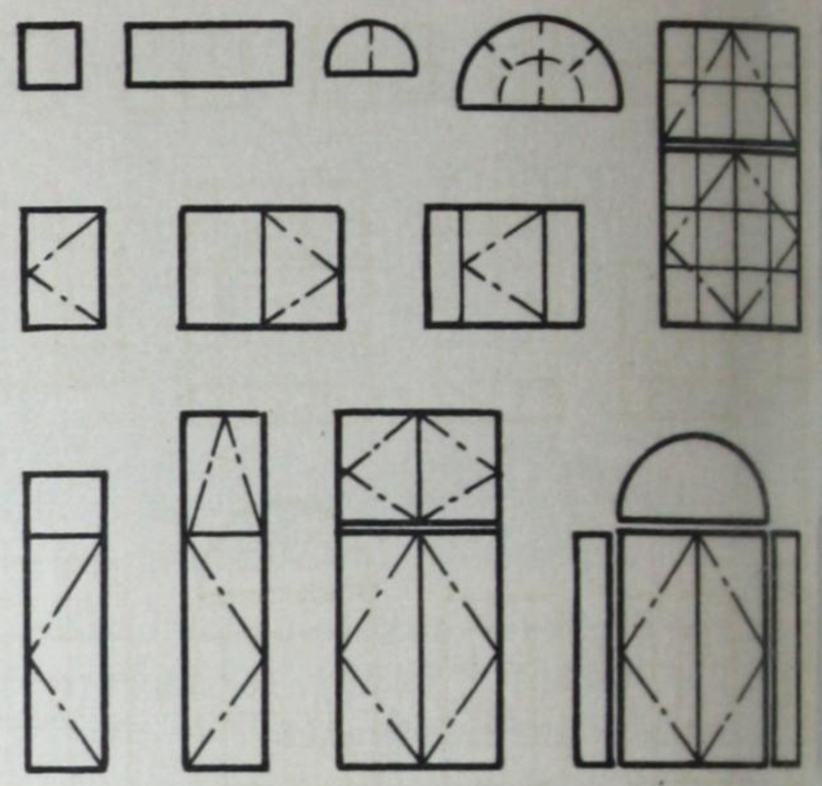


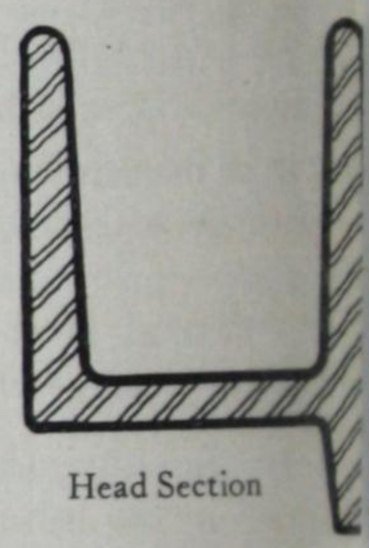


FENESTRA FENCRAFT CASEMENT TYPES



Screened Fencraft Casement





Head Section

Fenestra Casements usually are made in two general types of construction. One type,—shown on this page,—is called Fenestra "Fencraft" Casements. The other, shown on the opposite page, is called Fenestra "Fenwrought" Casements. (Where specified, Fenestra "Custom Built" Casements with 1½″ sections can be supplied.)

Fenestra Fencraft Casements are made from steel sections measuring 1¼″ from front to back.

The swing leaves usually open out, but can be designed to open in if so specified. Fenestra Screens usually are supplied but the casements may be had in Non-screened types if desired.

Often, these casements are supplied with interior bars (muntins) which divide the window into many small lights of glass, but usually they are shown with these bars omitted so that the windows may be glazed with large panes of plate glass or with leaded glass panels.

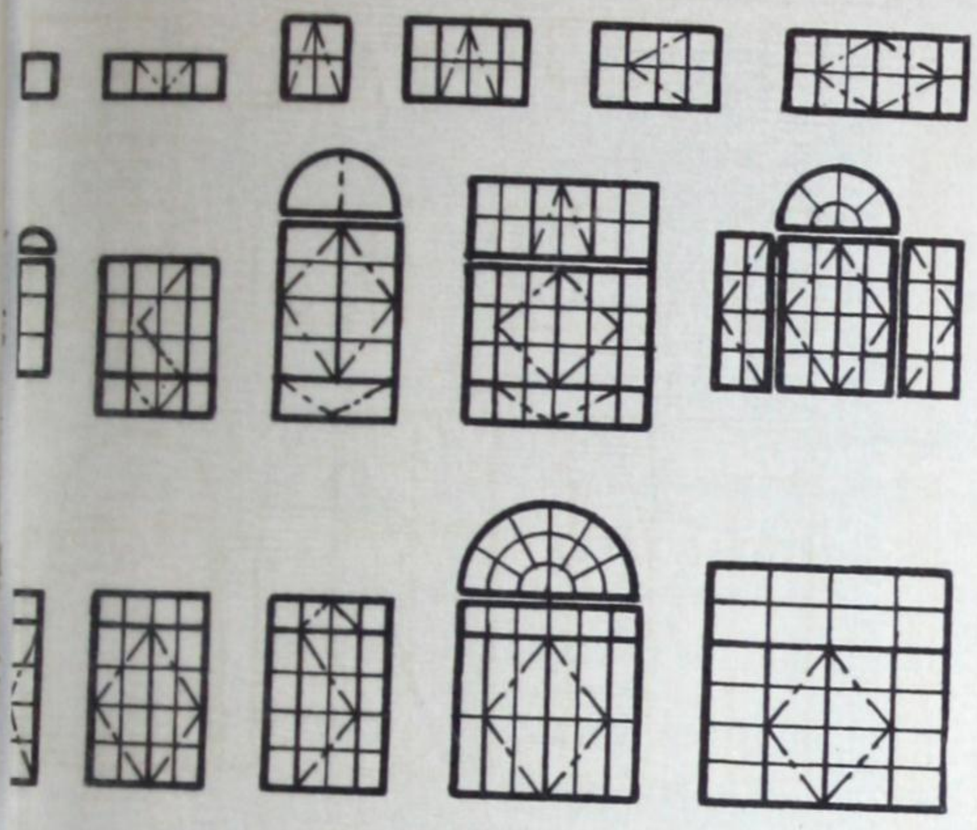
Curved heads and transoms are available and the various units may be combined side by side or one above another by the use of mullions so tha the variety of combinations and dimensions almost unlimited. Some of these interestin variations are shown above.

Hardware is pleasingly designed and may b had in a number of attractive finishes. Screene types are equipped with locking handles and s operators but Non-screened types have lockin handles only as the hinges are so designed as hold the swing leaves in any desired positio without the aid of sill operators.

Fencraft Casements are made in more than standard types and sizes. Typical of the range dimensions are the types shown on page 12. A height may be combined with any width. Swi leaves usually are limited in number,—not mo than two side hinged leaves in any one unit.

The smallest Fencraft unit is 1′ 1⅜″ by 1′ 1⅜ the largest standard unit is 3′ 2¾″ by 6′ 9¾ The standard dimensions and designs on page may be used to build up almost any effect desir

FENESTRA FENWROUGHT CASEMENT TYPES



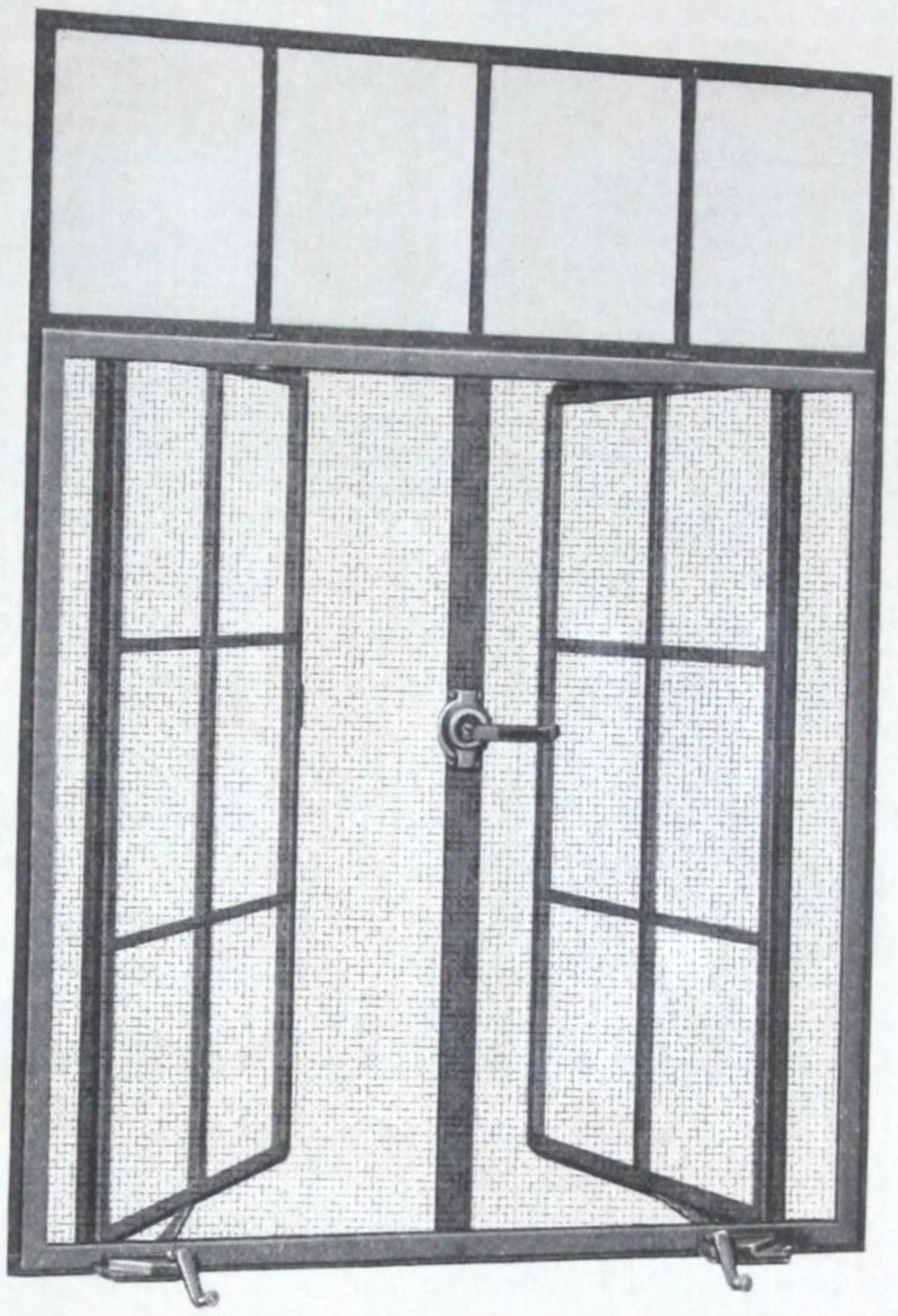
Fenestra Fenwrought Casements are manu-actured from solid steel sections measuring 1″ rom front to back.

Like the Fencraft line, Fenwrought is supplied n both Screened and Non-screened types with wing leaves opening out.

Interior bars usually are left in place, producing lass lights approximately 8″ x 12″, but these ars may be partially or almost wholly omitted if lesired to furnish a Spanish or an ultra modern ffect.

Transoms and sill ventilating units are available See Tiltin Windows) and by the use of mullions lmost any number of units may be used side by ide or one above another. This gives great lexibility both in overall dimensions and in entilator arrangement.

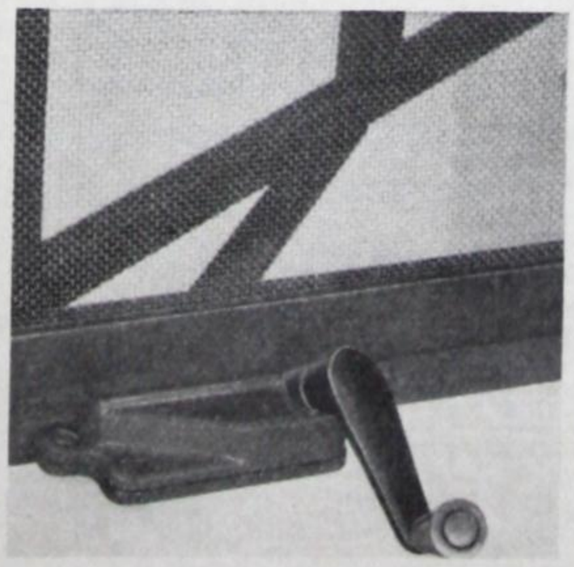
Hardware consists of a locking handle and sill djuster on Screened types, and handle only on he Non-screened types equipped with friction inges. The "Roto" adjuster, shown opposite, s operated merely by rotating the handle. The djuster arm pushes the swing leaf out or pulls t in tight, almost at a finger's touch. The handle tself is compact, neatly designed, protrudes but short distance, and leaves the sill free and clear.

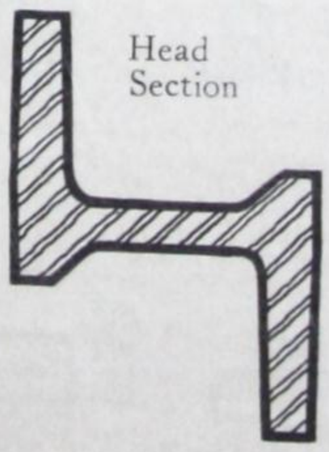


Screened Fenwrought Casement. Typical of a wide variety

Page 12 gives an idea of the maximum and minimum dimensions of Fenwrought units and the sizes of intermediate types. Any width may be combined with any height, producing over 100 combinations.

Swing leaves are never more than two lights wide. A few types have swing leaves which are only one light wide.

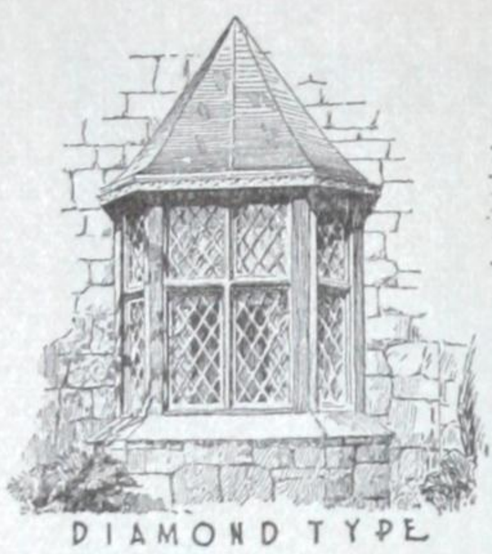


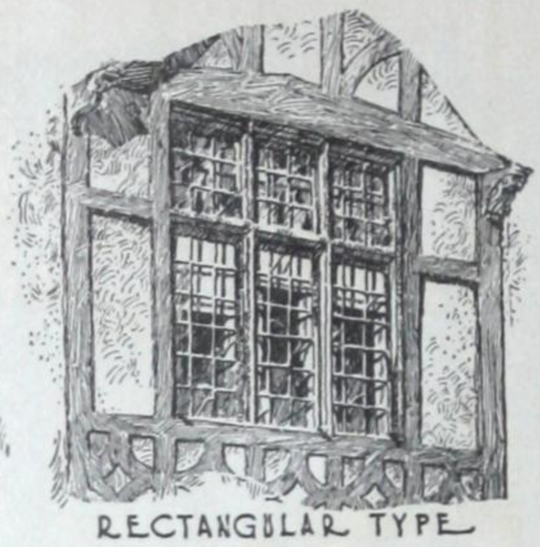


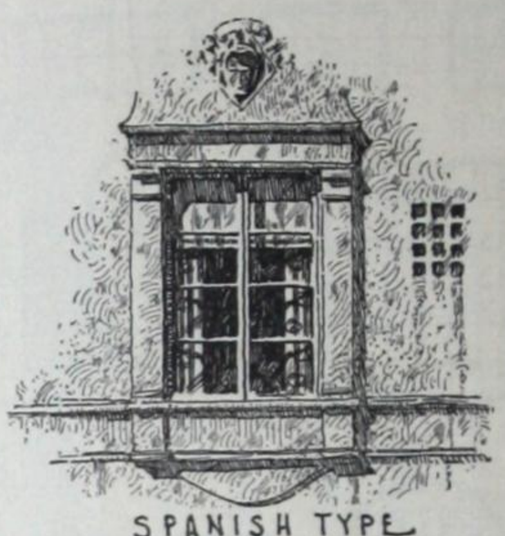
Head Section

Roto Adjuster

ATTRACTIVE DESIGNS IN LEADED GLASS


DIAMOND TYPE


RECTANGULAR TYPE


SPANISH TYPE

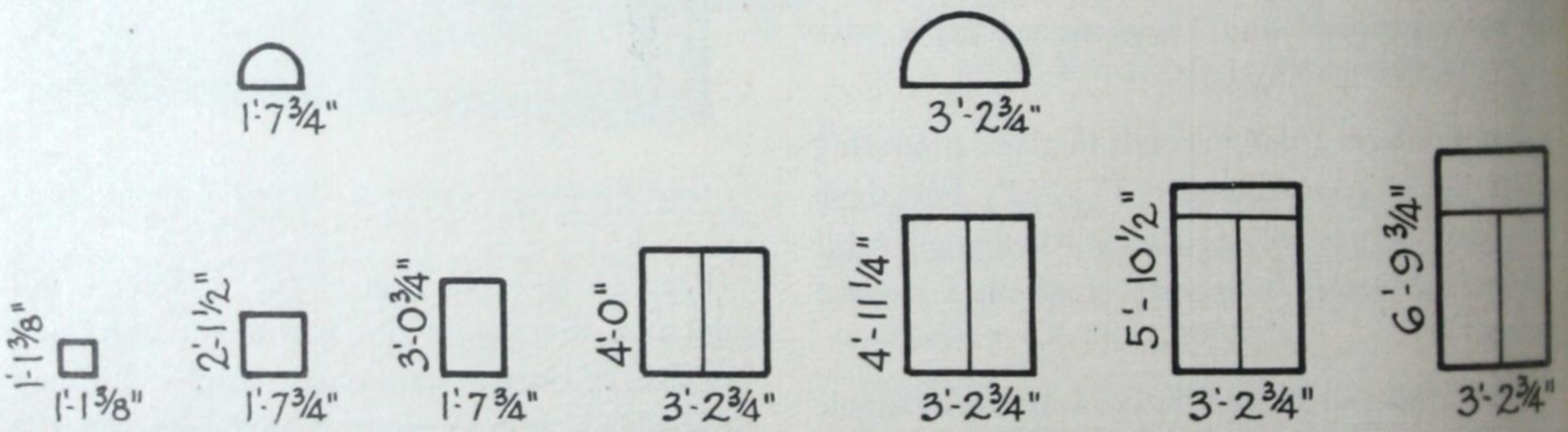

NORMAN TYPE

Above, are shown several suggestions for Fenestra Casements with leaded glass effects.

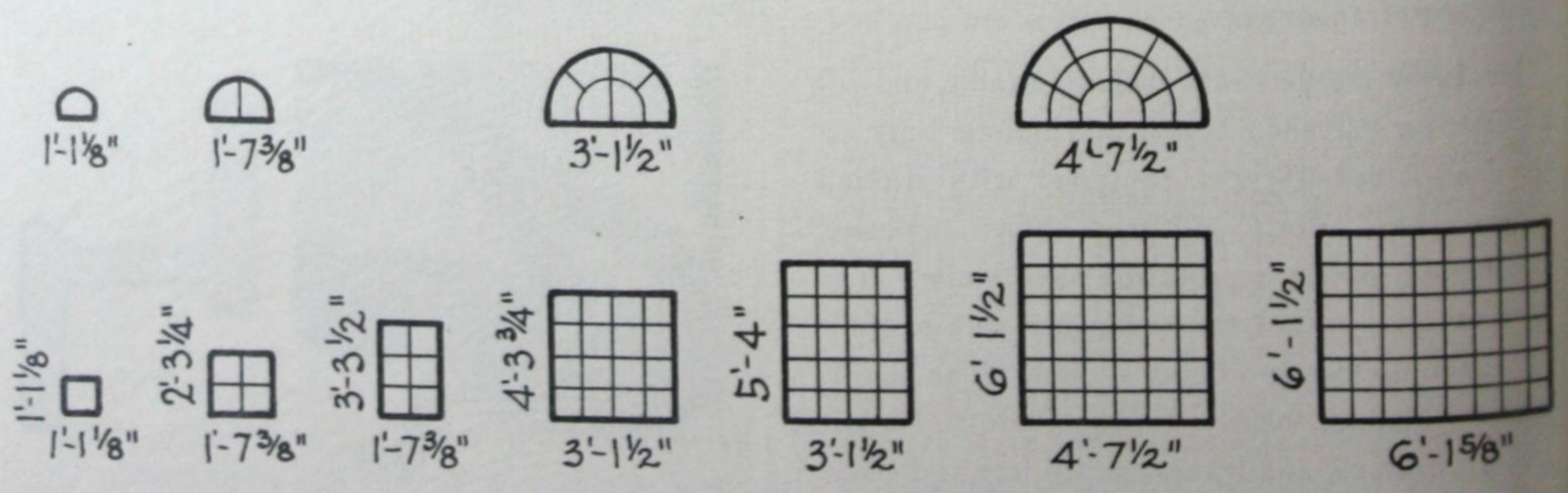
We do not supply leaded glass but when leaded glass is desired, the casements are made with muntins (interior bars) omitted so that the glass panels may be purchased locally and glazed in.

By omitting vertical muntins only, the horizontal bars are emphasized and clear glass or leaded glass panels may be used. See the Spanish type shown above.

FENCRAFT CASEMENT SIZES AND LIMITS



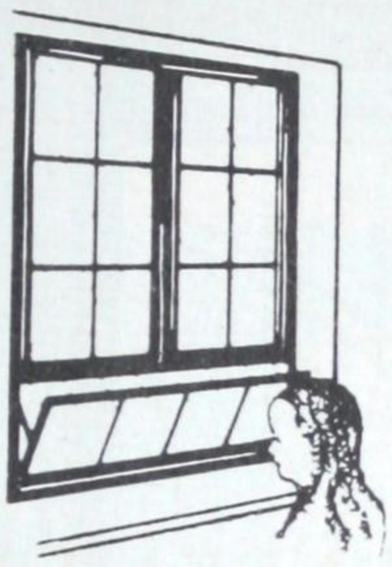
FENWROUGHT TYPES AND DIMENSIONS

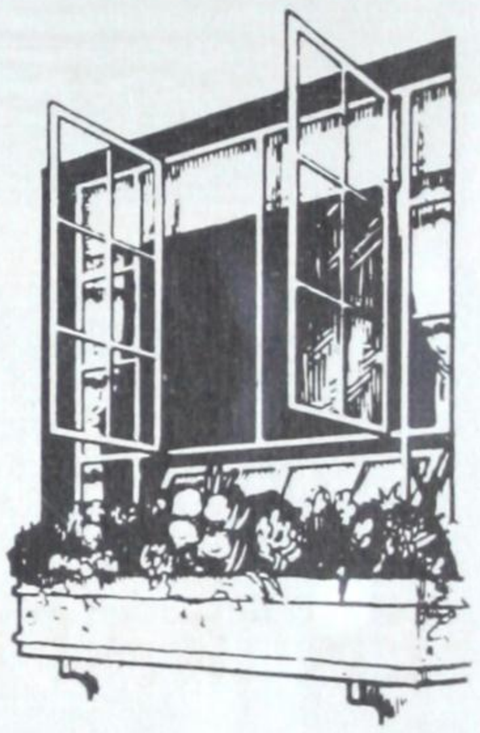


TILTIN" WINDOWS HAVE ADVANTAGES









Fenestra Tiltin Windows are one light high d varying in width and are designed to attach the sill of Fenwrought Casements.

The Tiltin ventilator is designed to tilt in out 4" at the top without any appreciable ening at the sill. In this position, the ventila- r acts like a wind guard similar to those used on fice windows.

While the upper swing leaves remain closed in clement weather, the Tiltin ventilator may be ft partly open. It gives indirect ventilation it prevents the entrance of weather as the slop- g panes guide water to the outside.

Tiltin Windows are especially useful in bed- oms when moderate ventilation without direct aft is needed. The ventilators, partly open, rect air currents up over the heads of sleepers.

The same wind guard feature is an advantage libraries, play rooms, sewing rooms and dens, ie Tiltin ventilator preventing sudden gusts of ind from disarranging papers, patterns, games r materials.

When used in upper story windows, these win- ows act as a safeguard for young children. Even with vents fully open, space above or below the vent is so narrow it is practically impossible to fall out.

Often a home owner wants flower boxes immediately below his windows but the usual casement with outswinging leaves disturbs the taller plants. Here a Tiltin window is ideal. Flowers may be the full height of the ventilator which tilts in to admit the fragrance of blossoms and gives easy access for watering, weeding and cultivating.

Tiltin Windows are screened on the outside. Screens easily removed from inside.

Of course, these windows may be opened farther than merely 4" at the top. In fact they may be opened to a full 90 degrees so that the entire space is 100% open. This helps the ventilating problem materially if the weather is warm.

Like all other Fenestra Windows, the outside surface of the glass is easily washed from inside the room.

Made in sizes to fit any standard type of Fenwrought Casement.

CASEMENTS IN COLONIAL TYPE HOMES



Some say casements are not suitable for Colonial Homes. They argue that Early American Architecture originated with the Puritans who favored windows divided horizontally near the center.

But other people, apparently well informed, say that horizontally divided windows are a reflection of Dutch influence, the Puritans having stopped off in Holland on their way over. Pure Early American Windows, these people say, originated with the Pilgrims who came direct from England and brought their casement ideas with them.

Anyway, casements do look well in Colonial Homes and have been used satisfactorily in many.

SOME FENESTRA CASEMENT ADVANTAGES

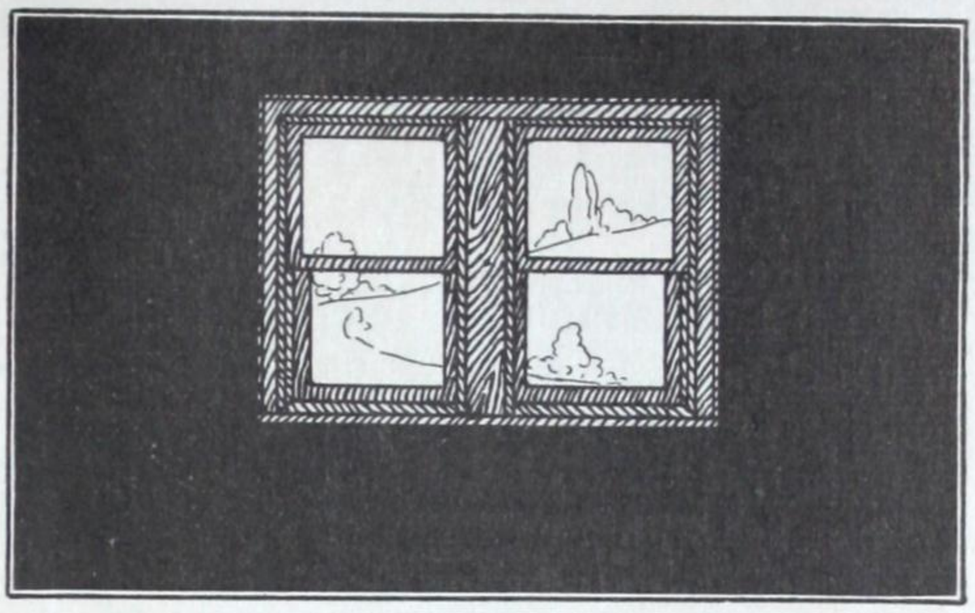
—Strength

Fenestra Casements are strong. They are designed from solid rolled, vertex profile, steel sections. They do not swell, shrink, split or splinter. They are tough, sturdy and stand up under hard usage.

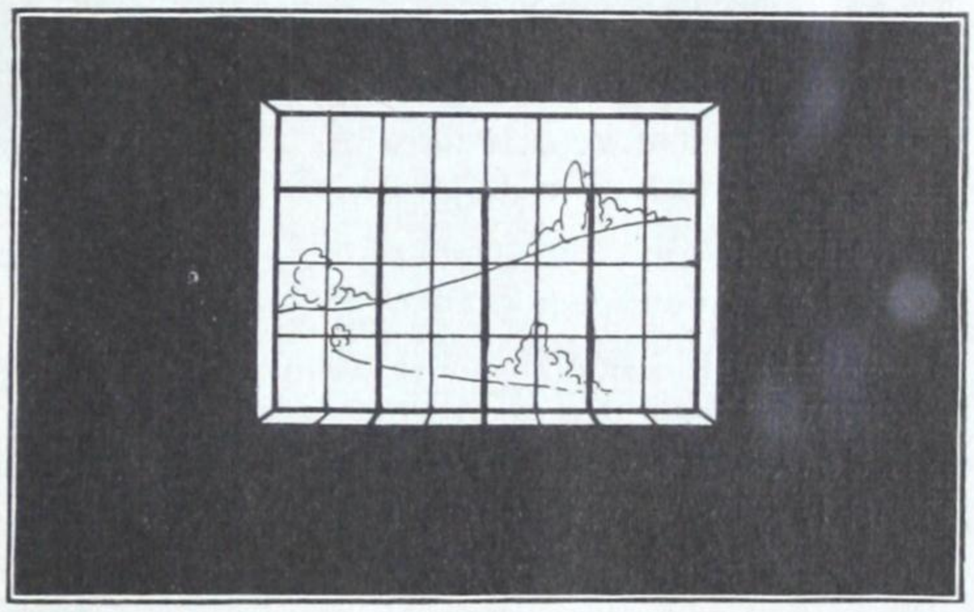
2—Admit More Light

They admit more light. Compare a Fenestra Casement—sash and frame—with the ordinary type of Double Hung Window where the overall dimensions are the same and invariably you will find that the Fenestra Casement has a larger glass area. This is because the stiles and rails of the ordinary window must be fairly wide to have the required strength while Fenestra sections have the inherent strength of solid rolled steel and can be made comparatively narrow.

In addition to this, the usual type of Double Hung Window requires weights at the jambs to counterbalance the weight of the sash and these weights must be enclosed in boxes which are always provided for in making up Double Hung frames, so that the actual area of glass per frame is much less than in Fenestra Casements which employ no weights.



Light area of an ordinary Double Hung Window

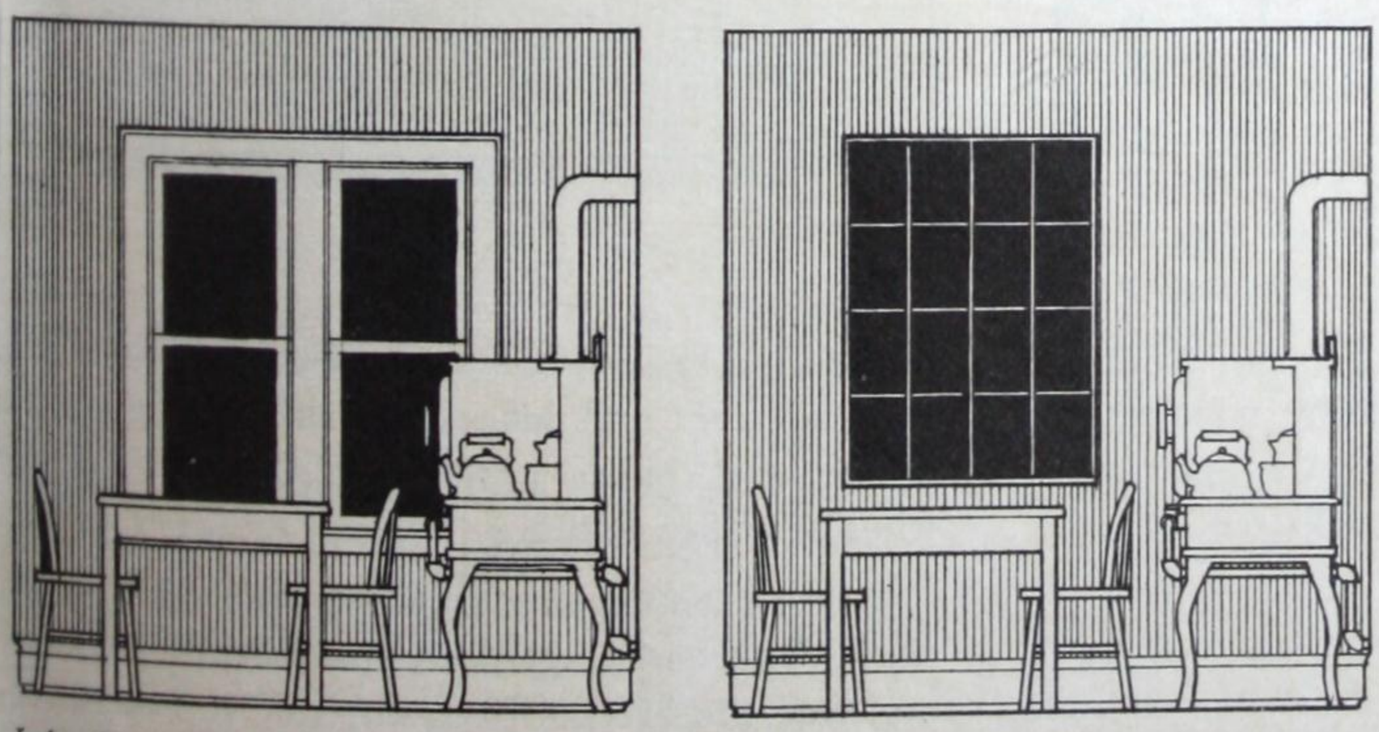


Light area of a Fenestra Casement

3—Conserve Wall Space

In modern construction, wall space is at a premium. In bedrooms, kitchenettes, closets and such rooms, there are areas where as much light as possible is needed but where ordinary windows in sufficient number to give good light will occupy so much wall space that little room is left for furniture. In all such cases, the narrow frames of Fenestra Casements are a big advantage.

In some states, the building codes determine a definite ratio of glass area to floor area for every room in the house. Fenestra's large area of glass helps tremendously in meeting requirements such as these.



Left—Ordinary Double Hung Window. *Right*—Fenestra Casement. Both have the same glass area and are located the same distance from the ceiling and from the left hand wall. Which leaves more free wall space for furniture?

4—Burglar Protective

Fenestra Casements provide burglar protection. The 8″ x 12″ glass lights are not large enough to permit any intruder to enter by breaking a window and two

SURPRISING VENTILATION FEATURES

locks must be unlocked before the swing leaf can be opened from the outside.

5—Fire Resistant

Fenestra Casements are fire resistant. Steel does not burn. Insurance companies often give lower rates on buildings equipped with steel casements. Fenestra Casements are installed with a minimum of wood trim and may be installed without any, thus decreasing the fire hazard still further.

6—Ventilation Control

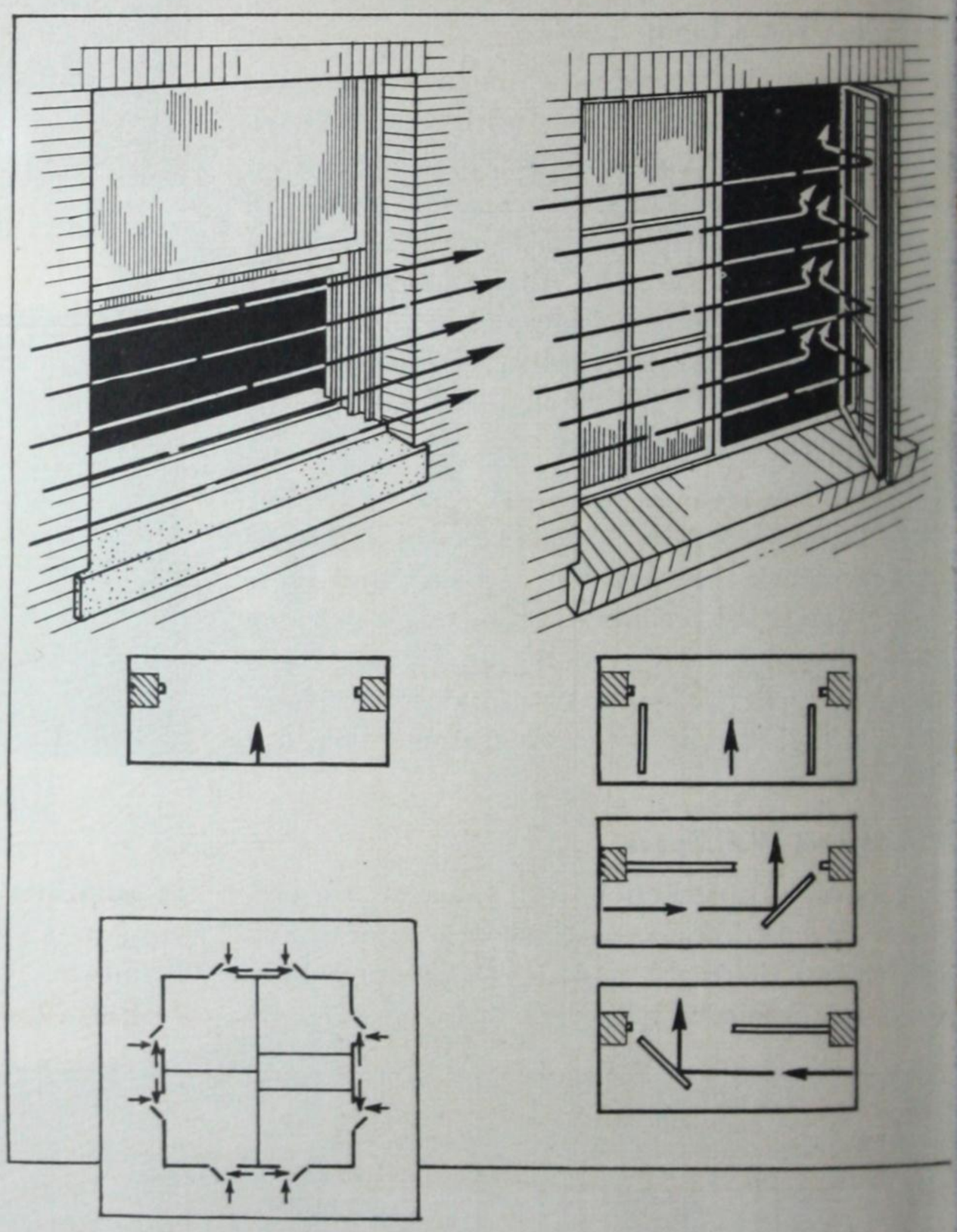
Fenestra Casements provide better control of ventilation, because their uniform free and easy operation in all seasons and in every kind of weather reduces to a minimum the amount of effort necessary to open and close the window, whereas the usual Double Hung Windows frequently stick and require unusual effort.

People who would sit in a draft or in an overheated room rather than tussle with a window that is hard to move, find that Fenestra Casements, operating almost at a finger's touch, are conducive to healthful temperatures.

By using a little care and forethought at the time the house is built, the designer can specify Fenestra Casements with exactly the amount of ventilating opening he desires for each room. He can secure, if he so desires, even 100% opening whereas the usual Double Hung Window never supplies more than 50% opening under any condition.

But even more important from a ventilating standpoint is the fact that Fenestra Casements may be set to catch the breeze blowing from any one of three directions.

Double Hung Windows admit only those breezes that blow perpendicularly or nearly perpendicularly to the face of the sash. Breeze blowing parallel to the face of the sash pass by and very few enter. But Fenestra Casement catch not only the breeze that blows perpendicu



larly but, if the swing leaves are open at an angle they intercept and deflect into the room, even the breeze that blows parallel to the face of the window. (See sketch.)

It is an astonishing fact not generally known that even where single leafed Fenestra Casement are used the breezes from any one of four directions may be admitted to any room that has cross ventilation. All that is necessary is to make sure

EASILY WASHED FROM INSIDE THE ROOM

that the casements are so specified that when installed the hinge jambs will be toward the nearest outside corner of the building. Note how this works out as shown by the small sketch, page 16.

7—Easy Operation

Fenestra Casements never swell, shrink, warp or stick. Hence their operation is always uniformly easy and trouble-free even though the windows may have been newly painted.

8—Weathertight

The swing leaves on Fenestra Casements meet the frame with a wide, flat overlap both outside and inside. Swing leaf and frame are drawn tightly together in a flat, double contact by the cam action of the locking handle. Thus is created one of the best insulation and weather protective



Easily and safely washed from inside

mediums known to engineers—a trapped air space all around the swing leaf opening.

Furthermore, all Fenestra Casements, properly installed, are set in a beading of mastic (supplied free). This mastic applied between the window frame and the building construction actually seals the window into the wall, guards against leakage or drafts around the edge of the opening.

Insulation of this kind is almost impossible to secure with ordinary Double Hung Windows, due to the difficulty of sealing the cracks around the weight boxes which cannot be reached with mastic. Tests conducted at the University of



Operated without touching the screen

Michigan showed that a Fenestra Casement was more weathertight than a Wood Double Hung Window, weather-stripped.

9—Easy Washing

Fenestra Casements are easy to wash on the outside from within the room. Extension hinges swing the sash away from the frame as the casement opens, leaving a 4″-wide opening at the hinge jamb through which the window cleaner can extend her arm without difficulty and reach the outside of every glass light without leaning far out or sitting backwards on the sill.

10—Screened Casements

Fenestra Screened Casements include, unless otherwise specified, steel framed, bronze mesh screens. These fit flat against the inside of the casement frame on the inside unless the swing leaves open in, in which case the screens are outside.

INSIDE SCREENS A MODERN CONVENIENCE

11—Inside Operation

All swing leaves are opened, closed and locked from inside the screens. Dangers attendant on leaning out are eliminated.



Quickly set in place or removed

12—Fly Tight

The flat screen frame overlaps the flat window frame with a metal-to-metal, non-warping contact which makes the window fly tight and insect proof.

13—Economical Screening

Only the actual ventilating part of the casement is screened. Thus the glass in side lights or transoms is left clear and unobstructed and considerable expense is saved as compared to other screening methods which necessitate screening the entire window opening.

14—Few Sizes Are Needed

Only a few screen sizes are needed as all Fenestra Casements are standardized as to size. Screens need not be numbered or marked when removed from the casements as any casement will accommodate a screen from any other casement having the same sized swing leaf with locking handle on the same side. Screens need not be purchased at the same time as the casements as it is easy to install them months afterwards, if desired.

15—Easy to Remove

Although the screens are neither conspicuous nor inconvenient if left in place the year round, they may be removed in a jiffy for winter storage if desired and are just as easy to set in place again.

16—Quickly and Easily Rewired

All screen frames are reinforced by an internal, triangular rib which extends around the entire circumference, making them unusually sturdy and durable. All frames may be quickly and easily rewired.

17—Already Painted

The flat, gray, priming coat with which all Fenestra Casements are painted before shipment provides an excellent base coat. A finish coat may be applied at any time in colors harmonizing with the color scheme of any room. Screen frames also are in flat gray unless otherwise specified.

18—Standard Shade Brackets

Shade brackets are not supplied with Fenestra Casements but each casement is drilled at the top of each jamb member to accommodate standard shade brackets which may be purchased locally. Thus, shade and drapery supports may be attached to the casements themselves instead of to the surrounding woodwork or plaster.

19—Architectural Advantages

Fenestra Casements insure several distinct architectural advantages as compared to the usual type of Double Hung Windows:

(1) Due to the elimination of weight boxes, a wide variety in the inside treatment of window openings is possible. (2) No broad, heavy, horizontal line is prominent at or near the center of the window as in the case of Double Hung Windows. (3) All glass in the Fenestra Casement is in the same plane, a feature impossible to secure in Double Hung Windows where one sash must, of necessity, slide past the other.

20—Glass is Inexpensive

Small lights of glass are less expensive than large lights, whatever grade of glass is used. Fenestra Casements with interior muntins effect a

glass economy, not only in first cost but also in maintenance and replacement, as compared to the large glass lights commonly used in Double Hung Windows.

21—Possible Economies

Several worth while economies are possible with the use of Fenestra Casements: (1) The first cost is reasonable; (2) Installation costs are minimized since the casements reach the job complete with no extra material to buy; (3) Interior trim is eliminated at the head and both jambs; (4) The cost of weather-stripping is eliminated.

22—Minimum Repairs Needed

Fenestra Casements require minimum repairs. No one ever needs to refit steel windows because steel sash do not warp or swell and never stick from excess paint or changes in atmospheric temperature or humidity. No cords fray out or break. No weights drop off. Muntin bars do not split or splinter.

23—Building Insurance

No better insurance on your building investment can be obtained. Modern construction is tending toward permanence, particularly as regards window design. Through their increasing popularity, steel casements are becoming the symbol of up-to-date building.

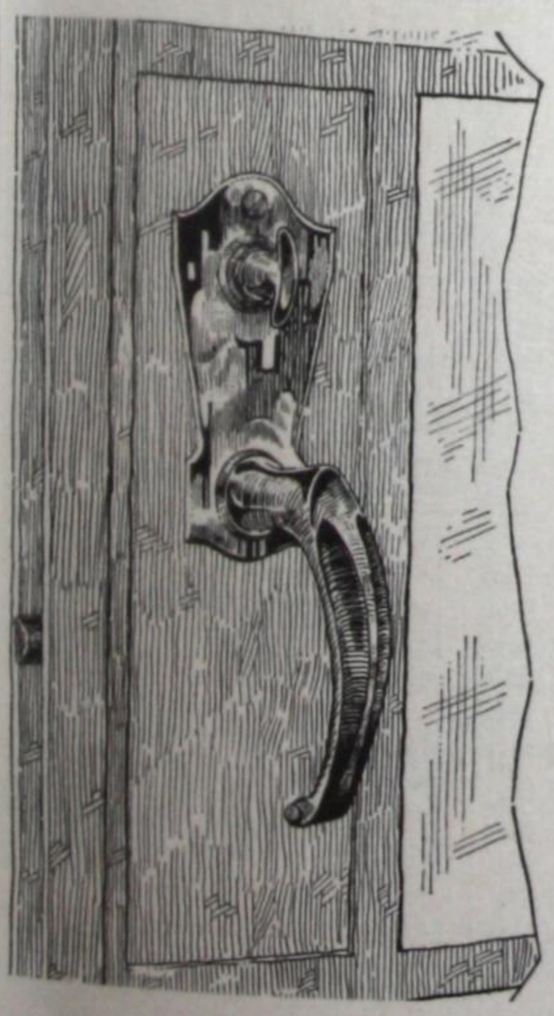
What better insurance could any one ask for the safety of his investment? If you ever want to sell your home, these modern windows will prove to be a feature which draws prospects. They insure you against the decline in popularity and the speedy obsolescence which attend the use of materials that are declining in public favor.

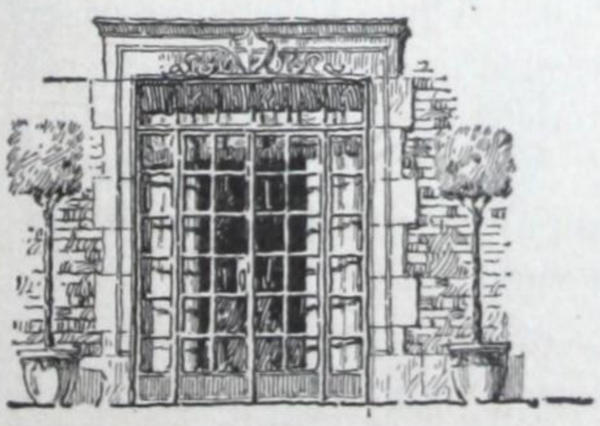
The building of a home often is one of the largest investments a man makes during the course of his lifetime. How important then, to select carefully, modern, permanent windows that will last as long as the building stands and help increase its worth!

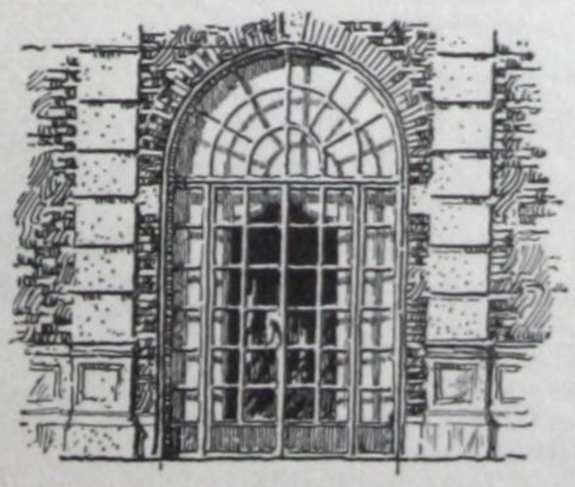
FENESTRA FRENCH DOORS ARE AVAILABLE











Fenestra French Doors may be had in keeping with the Fenestra Casements. These doors are designed for use singly or combined either with Fenwrought or Fencraft types. Frequently the doors are centered, with side lights and curved or square transoms attached.

Each door has two swing leaves fitted with three steel friction butts. The inactive leaf has bronze head and sill bolts. The active leaf has a bronze lock, aluminum cased with thumb latch on the inside and bronze handles on both inside and outside. Cylinders on both sides or on the outside only may be had if specified.

While the standard type of Fenestra Casement Door is not equipped with a threshold, an extruded bronze auxiliary threshold can be furnished as an extra.

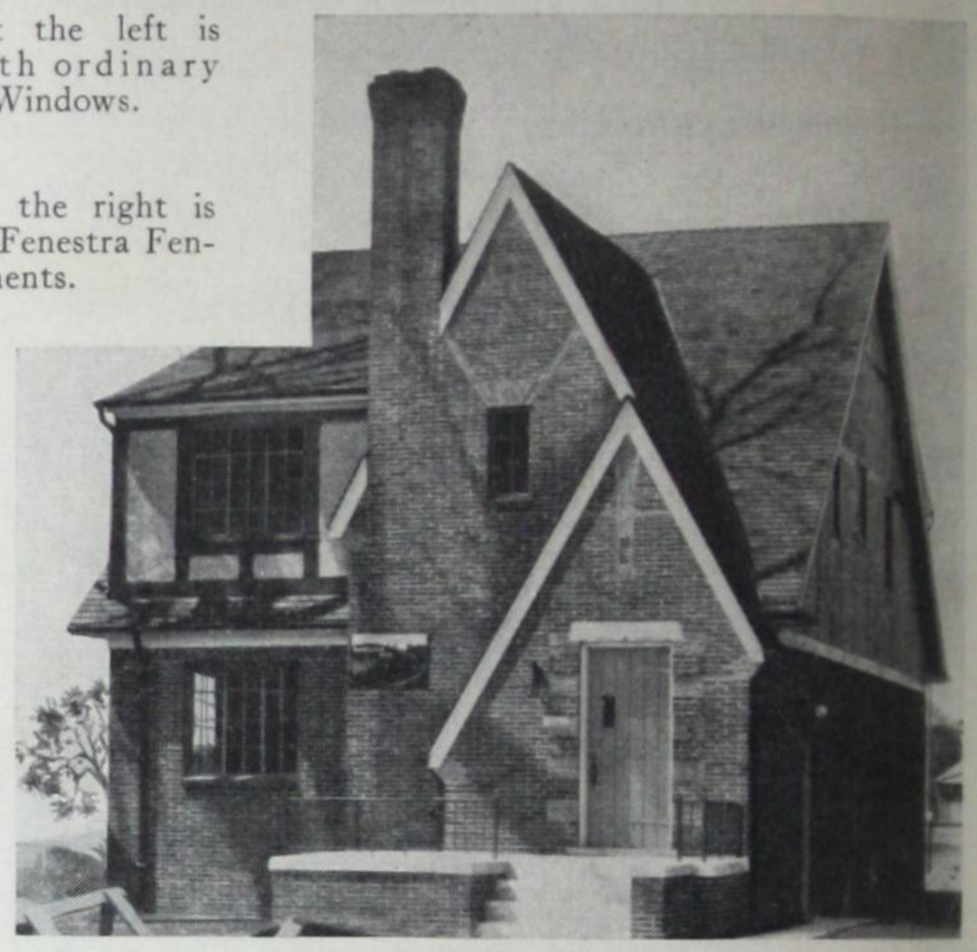
French Doors are not recommended for front entrances.

BUT ISN'T FENESTRA MORE EXPENSIVE?



The house at the left is equipped with ordinary Double Hung Windows.

The house at the right is equipped with Fenestra Fen-wrought Casements.



Fenestra Casements, purchased in Maine or in California are made in the same way, designed from the same material, finished identically, carry the same hardware. The buyer has the benefit of a nationally standardized quality and value. The prices will be the same subject to slight variation in transportation charges.

Some makers of windows of the usual Double Hung Type also have a national standard, but there are many windows on the market made by small local manufacturers and these differ one from another in grade of materials, in design, in workmanship and particularly in price. The customer has almost nothing by which to measure the quality of his purchase in proportion to the price he pays.

For this reason, it is difficult to compare the cost of Fenestra with the cost of other windows.

Moreover, much of the real economy of Fenestra Casements comes in the installation. Your contractor distributes, trues up, bricks in and glazes his casements. But if he uses Double Hung Windows, he distributes, sets and plumbs the frames; distributes and fits the sash; distributes and attaches weights and cord. A considerable increase in installation labor.

Any contractor who will set down all his costs on windows installed, will be surprised,—first, to discover how much he actually does pay for windows of any kind; second, to discover how economical steel casements really are compared to other window types.

The pictures above show two houses built by the same contractor from the same set of plans. They are identical except that one has Fenestra Casements while the other has not. Comparative costs showed that the windows not Fenestra cost $320.86. The Fenestra Casements cost $283.21. In the living room and in the dormer above, one combination Fenestra window replaced three ordinary windows and gave the same light area.

A Baltimore builder supplied us with the following comparison from costs which he kept on a building operation in 1933. The costs are on the basis of one window.

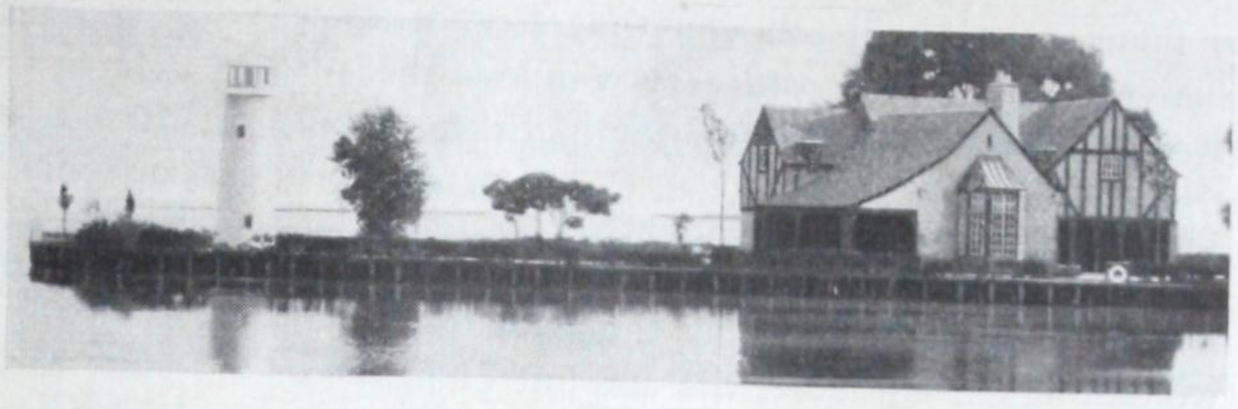
ORDINARY DOUBLE HUNG		FENESTRA CASEMENT	
1 Double Frame	$ 6.00	Type 6426 VC Casement	$13.21
2 Prs. Sash	4.00	Screen for Above	4.16
8 Weights	1.96	3 Metal Corner Beads	.35
2 Lifts, 2 Locks	.40	1 Stool, Apron	.55
32′ Sash Cord	.24	Glass and Putty	3.60
Casings, Stool, Apron	1.68	Set Window in Wall	.30
Glass and Putty (24 Lights)	3.60	Calk with Mastic	.50
Weather Strips	2.25	Install Beads, etc.	.70
Full Screen	3.00	Install Stool, Apron	.60
Set and Calk Frame	1.30	Paint 1 Coat	.50
Trim and Fit Sash	.60	Glaze (Incl. with Glass)	.....
Prime Sash	.50	Paint 1 Finish Coat	.50
Install Casings, etc.	1.20	Paint Apron, Stool, 3 Coats	.40
Paint Window 2 Coats	1.00	Attach Handle, Operator	.30
Paint Casings, etc.	.80		
Attach Lifts, Lock	.30		
Paint Screen 2 Coats	1.00		
	$29.83		$25.67

STORM WINDOWS,—IF YOU WANT THEM

Gentlemen:

My residence is located upon a point of land which extends into Lake Erie, at Bolles Harbor. It is almost surrounded by water, and there are no natural windbreaks in the vicinity, such as large trees or hills, to screen the house. It gives me pleasure, therefore, to advise that our Fenestra Casement Windows proved to be storm-tight all through last winter. I found it unnecessary to use storm windows.

FREDERIC W. DENNIS JR.



Mr. Dennis' home in summer



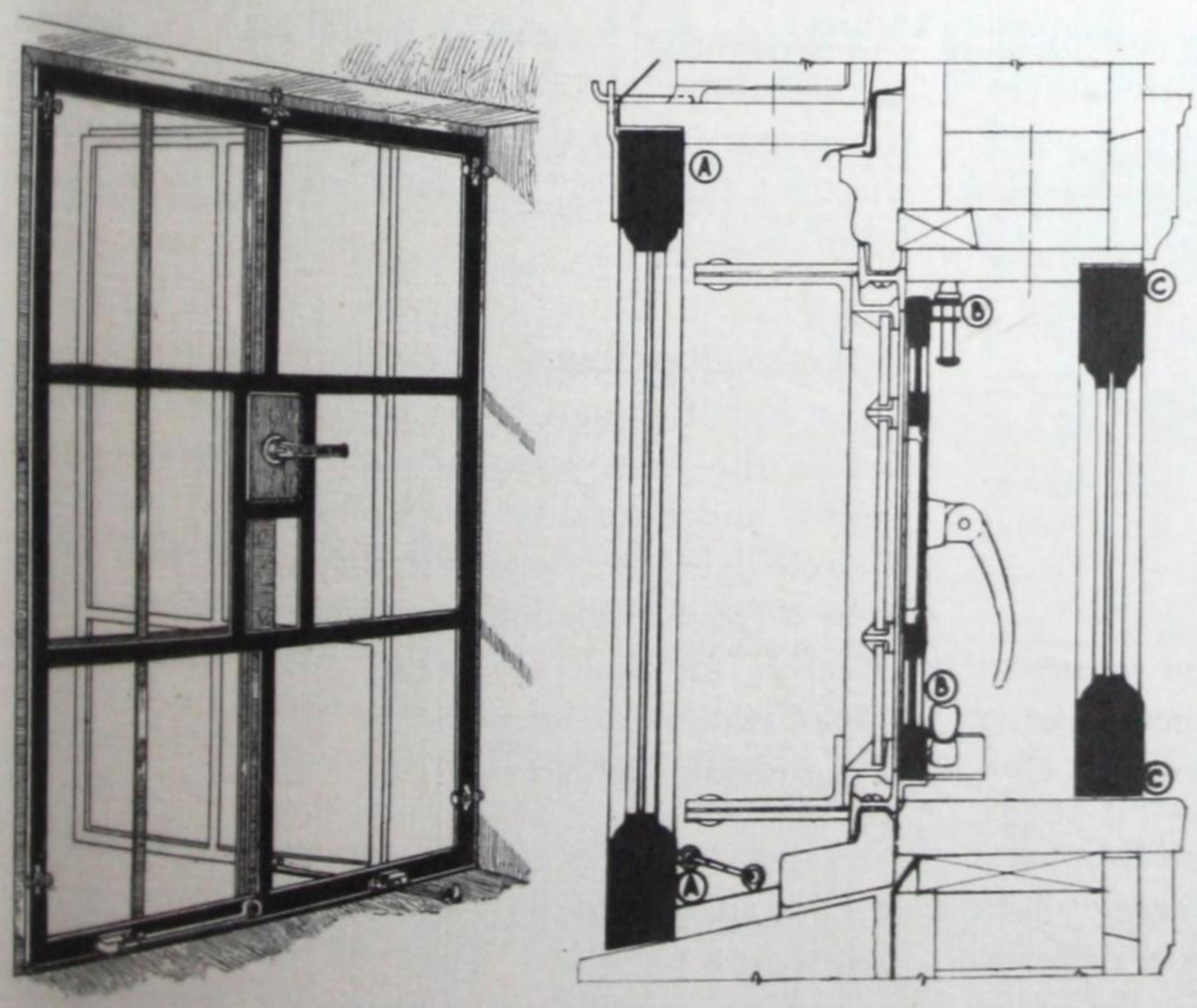
Mr. Dennis' home in winter

Many home owners, like Mr. Frederic W. Dennis Jr., tell us storm windows are unnecessary with Fenestra Casements. Other home owners, particularly in northern latitudes, insist on having them.

Where desired, any one of three types of storm windows may be used as indicated by the diagram below. Types A and C are wood windows usually supplied by local mills or lumber companies. Type A is top hung and requires wood framing strips to clear the casement hinges. Type C usually is side hinged on rabbeted wood trim.

Type B is a Fenestra "Winter Window," sold by us and designed of metal with narrow frame and muntins that line up with the casement itself. It sets flat against the casement on the inside and is held by rubber tipped thumb screws which make it easy to set in place or remove. On the face of the Winter Window next the casement, is a metal weathering strip which seals the opening around the entire edge. Casement hardware extends through so the swing leaves may be operated without opening the Winter Window. Louvers at the sill may be had if desired.

Winter Windows cost more than ordinary storm windows but many people favor them on account of their better appearance.



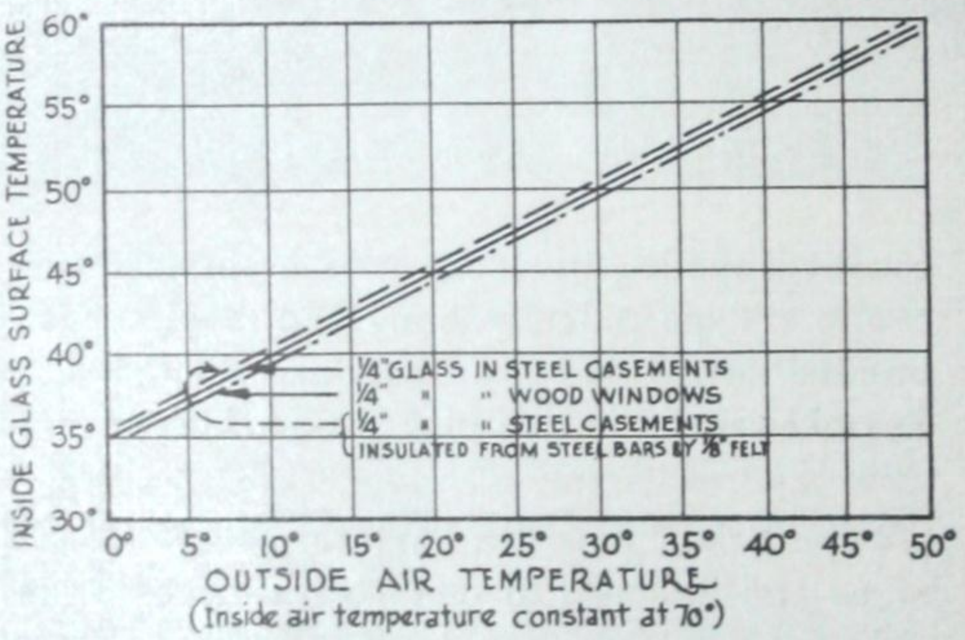
The Fenestra "Winter Window"

WHAT ABOUT THIS AIR CONDITIONING?

Some people will tell you that steel windows "sweat" more than ordinary windows because steel is an excellent conductor of heat, making the windows cold.

The truth is, glass is one of the best known conductors of heat and since the glass area in any window is considerable, the amount of heat loss through window frames and muntins, whatever the material used in their construction, is very slight indeed compared to the heat loss through the window glass.

The accompanying chart shows a test made at



the University of Michigan to determine the heat loss through glass under three conditions: (1) Glass set in a steel frame; (2) Glass set in a wood frame; (3) Glass set in steel and insulated by ⅛" felt strips.

The heat loss under all three conditions was practically the same, as is indicated by the three dotted lines all of which are parallel, proving that the material in which the glass is set makes almost no difference whatever in the amount of heat loss.

But "foggy windows" are not nearly so apt to be caused by heat loss, as by the presence of too much moisture in the air inside the house.

When warm, moist air contacts a cold surface, it may be cooled to the point where it cannot hold all the water it contains and therefore deposits some of it as "condensation." The more moist the air, the quicker it deposits and air in an ordinary house usually is very moist due to humidifiers and water pans and to the fact that the air often is recirculated. Furthermore, there is no convenient device for measuring the water content or reducing the amount.

In cold weather, excessive moisture or frost on window panes is not uncommon in new houses where the plaster has not thoroughly dried out. Usually this condition corrects itself during the first winter. Similar conditions also are found occasionally where steam is escaping from radiators or where wet clothes are hung in the basement or where humidifiers are not correctly adjusted. Too much water gets into the air just as it does when the bathroom mirror fogs over while you are taking a hot bath.

It is said that a teacupful of water, evaporated in a kitchen 10′ x 10′ x 9′ may increase the room's humidity 30%.

An ideal house from the standpoint of heating would be one that was damp and airtight. An ideal house from the standpoint of condensation would be one that was dry and drafty. The problem is to find a practical medium between these extremes.

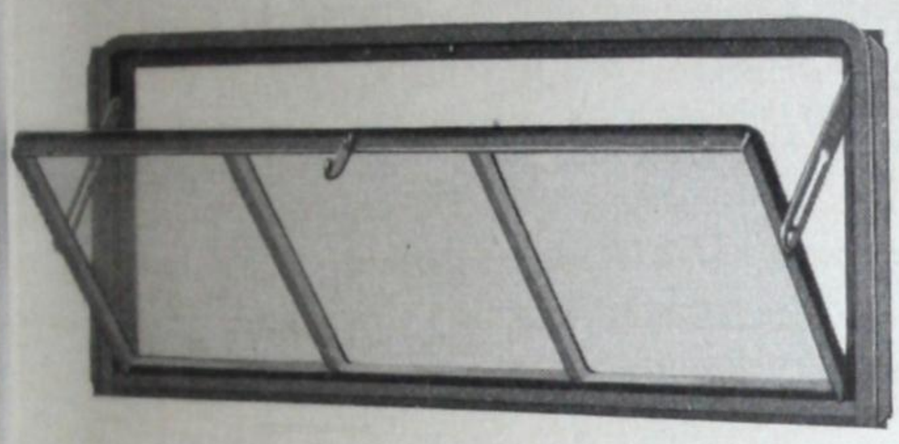
The remedy for excess moisture is (1) get rid of the source. Drain water pans and humidifiers if necessary. (2) Change the air. Open doors or windows for a few moments and let in drier air from outside.

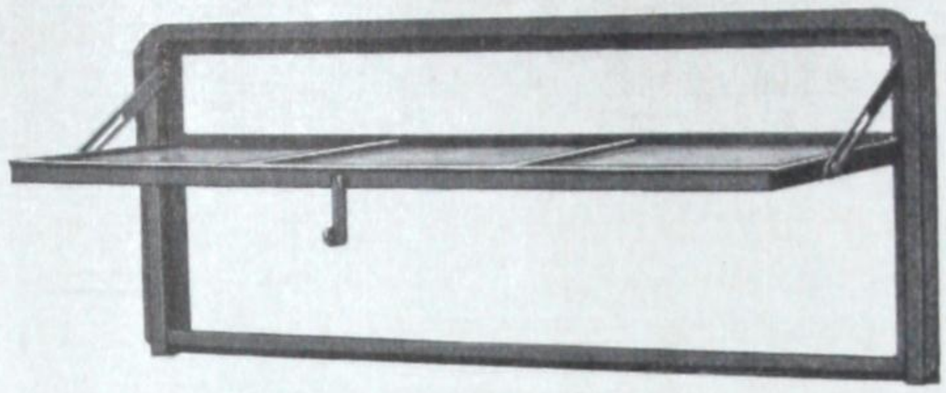
Air conditioning is arousing much popular interest but it cannot be perfectly applied in homes unless the heat loss through the glass is controlled and humidity is measured and regulated. Double windows with air space between are a help. Double glazing in single windows is not effective for dust invariably filters between the panes and there seems to be no way of cleaning these inside surfaces.

A good practical and economical suggestion would appear to be "Winter Windows" as described on page 21. These fit tightly against the casement frames on the inside but may be removed quickly and easily for cleaning.

THE FENESTRA BASEMENT WINDOW

SOLD EXCLUSIVELY THROUGH DEALERS





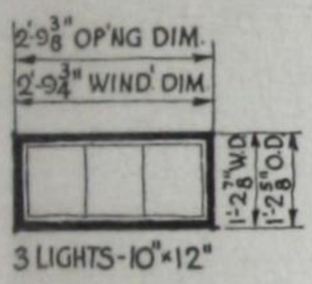
Fenestra Basement Windows open either from the top or bottom and are hung on side arms which permit them to tilt in at a 45 degree angle. Fully open, they give 100% ventilation.

The entire sash may be lifted out of the frame from the inside and without the use of tools should reglazing become necessary.

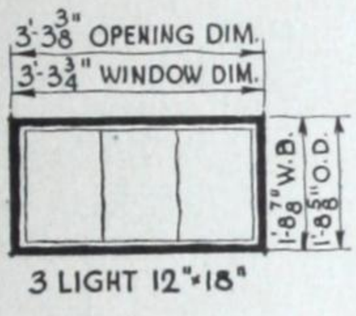
The sash is glazed on the inside with wire clips and putty or may be arranged for puttyless glazing if desired.

The sill of the sash is especially designed to overlap the frame sill and form an effective weather-protection even when the window is open.

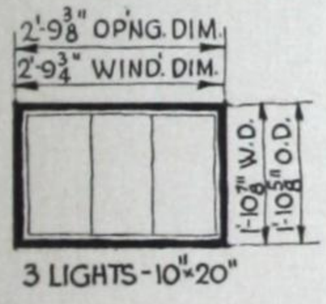
At moderate extra cost a steel framed bronze mesh screen is supplied,—easily attached and accessible from the inside only.



3 LIGHTS-10"×12"



3 LIGHT 12"×18"



3 LIGHTS-10"×20"

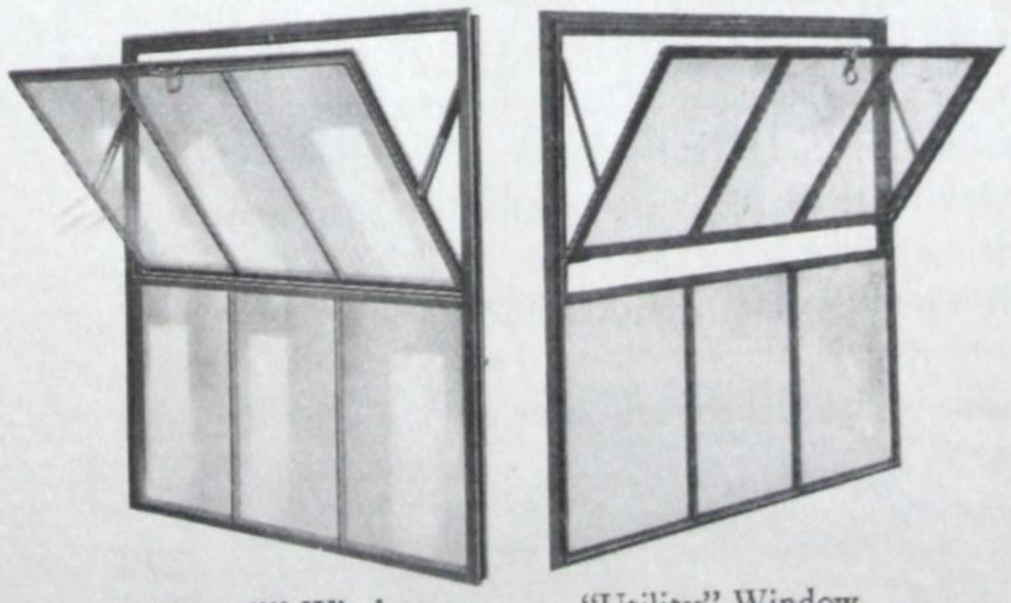
THE "UTILITY" AND "SERVALL" WINDOWS

The Utility Window is made in one size only,—3′ 4½″ by 3′ 7½″. The upper half contains a Projected-in ventilator hung on side arms and mounted on sliding friction shoes. In opening, the sash tilts in at the top while sliding up from the bottom. A spring catch at the head holds the sash tight shut when closed.

These windows are well adapted to use in private garages and are especially servicable in basement game or recreation rooms as they provide light far in excess of the ordinary basement window while the tilting ventilator affords protection from the weather even when the window is open.

Outside screens are available when specified.

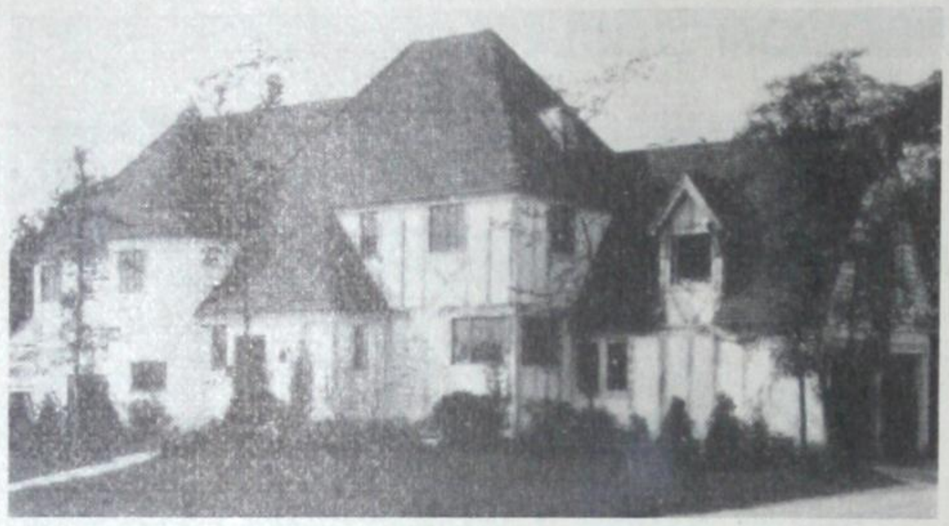
The Servall Window is similar to the Utility Window in size, but the ventilator may be opened



"Servall" Window "Utility" Window

either from the top (to a 45 degree angle) or from the bottom (to give 100% opening). Although the ventilator is held firmly by side arms these may be disengaged and the entire sash may be removed from the frame without the aid of tools, if desired.

USED IN THESE ARCHITECTS' HOMES



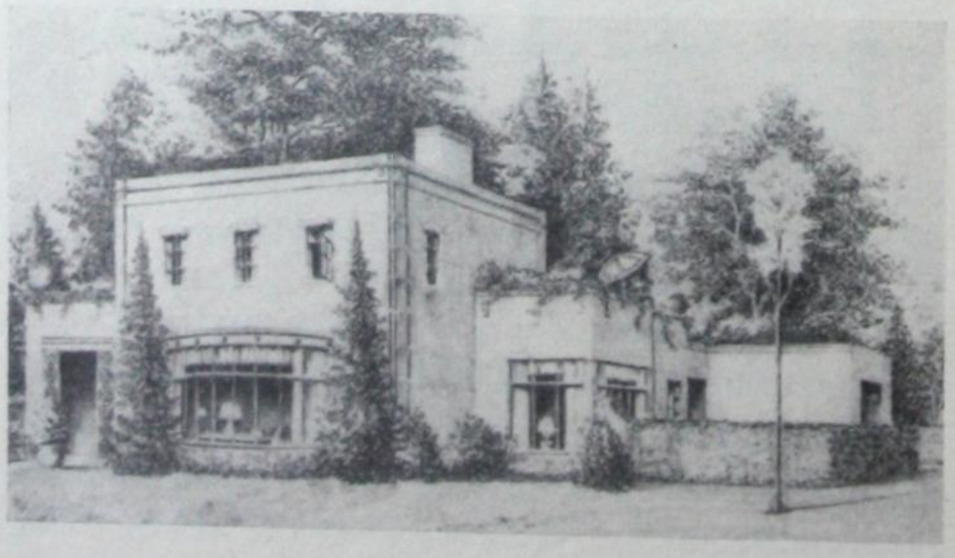
Home of Mr. A. W. Coote, Architect, Great Neck, L. I., N. Y.

Fenestra Casements were used throughout in two residences both of which won prizes offered by "House Beautiful" magazine for the best designed single homes. The houses are owned by Dr. Walter C. S. Koebig, of Pasadena, Calif., (*) and Mrs. F. G. Mead, of Berkeley, Calif.(**). (See illustrations starred on page 4.)

The Stran-Steel House, one of the features of the modern construction group at the Century of Progress Exposition in Chicago was Fenestra equipped throughout.

The Detroit Steel Products Company is the oldest and largest manufacturer of steel windows in the United States.

It sells through District Offices and Agents located in approximately 200 principal cities and through hundreds of Dealers covering almost all towns of 10,000 population or over. Well stocked warehouses, strategically located and backed by factories in Detroit, Mich., Cleveland, Ohio, and Oakland, Calif., insure prompt shipment. General offices are located at 2250 East Grand Boulevard, Detroit, Michigan.



The Stran-Steel House at the Century of Progress Exposition



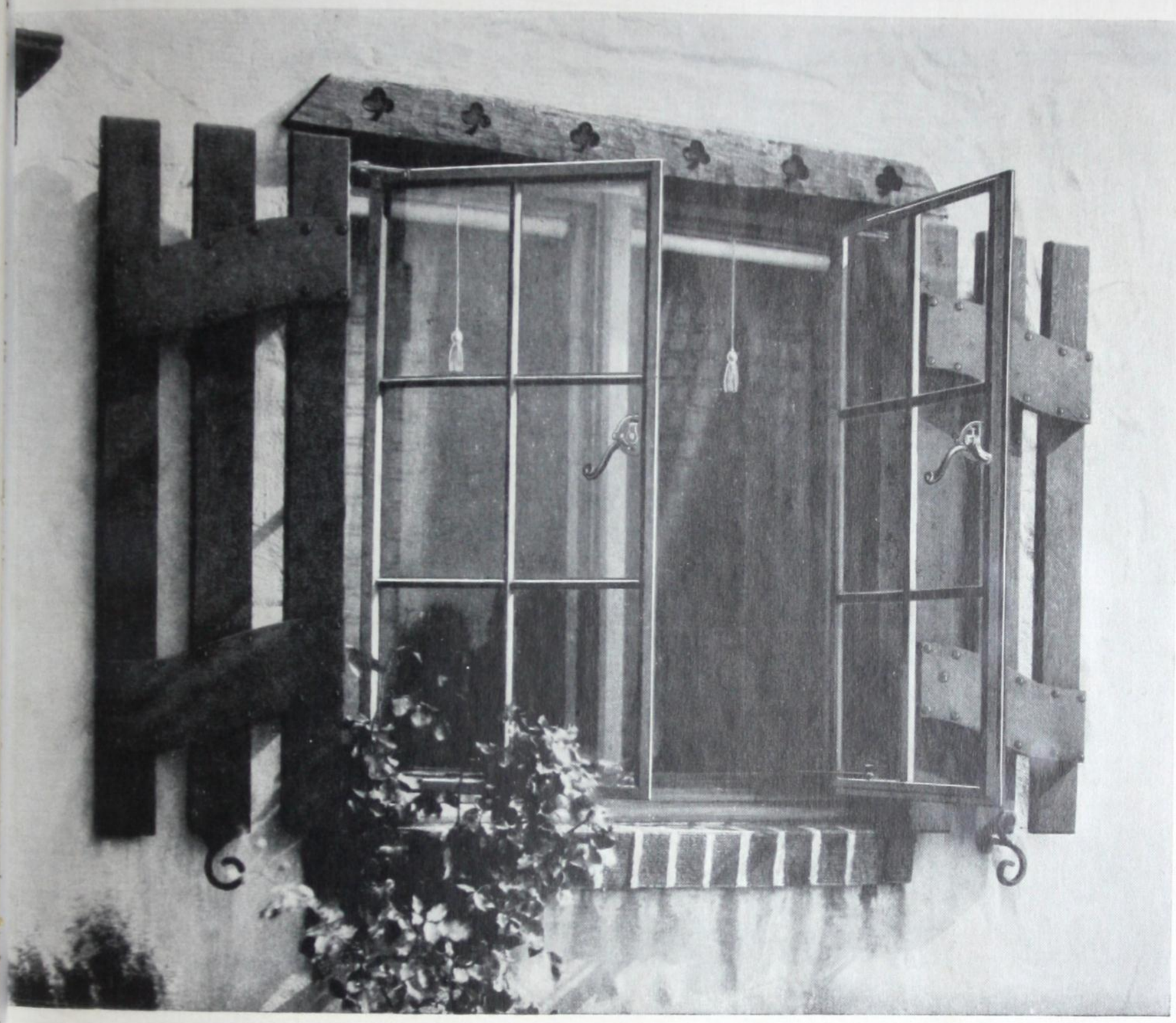
Home of Mr. H. W. Cordes, Architect, Cincinnati, Ohio

From among architects who testify to the value of Fenestra Casements by using them in *their own homes*, we have selected the following as typical of Fenestra's wide distribution:

Mr. Sidney L. Adler, Mobile, Ala.
Mr. William B. Betts, Ravinia, Chicago, Ill.
Mr. A. C. Borzner, Beachwood Park, Pa.
Mr. E. H. Clark, Winnetka, Ill.
Mr. W. C. Coates, Jr., Fresno, Calif.
Mr. A. W. Coote, Great Neck, L. I., N. Y.
Mr. H. W. Cordes, Cincinnati, Ohio
Mr. N. C. Cox, Cleveland, Ohio
Mr. C. W. Ditchy, Northwood, Detroit, Mich.
Mr. W. W. Drummey, Jamaica Plain, N. Y.
Mr. R. R. Fields, Rosemont, Pa.
Mrs. Beulah Fleming, Albuquerque, N. M.
Mr. Carl E. Jefferson, Oakland, Calif.
Mr. W. E. Kelly, Portland, Ore.
Mr. Edwin Kline, Great Neck, L. I., N. Y.
Mr. Louis R. Moss, Kenwood, Md.
Mr. John R. Parmalee, Nashville, Tenn.
Mr. Lucius A. Phillips, Los Angeles, Calif.
Mr. J. S. Reed, Birmingham, Ala.
Mr. George M. Riddle, Long Beach, Calif.
Mr. Robert Tappan, Forest Hills, L. I., N. Y.
Mr. Luther E. Uhlig, Short Hills, Dayton, Ohio

In addition to casements for single residences, Fenestra windows have been supplied in some of the finest apartments, hotels, hospitals, schools and office buildings in America, including Casa Riviera in Long Beach, Calif., and the famous Tudor City and London Terrace Apartments in New York City. Among the most interesting installations are the solid aluminum double windows in the Cincinnati Union Passenger Terminal, largest metal windows in the world.

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201



This catalog is prepared especially for YOU as a prospective home owner. Undoubtedly your Architect and Contractor are familiar with Fenestra Windows, but we shall be glad to give them details, layouts and prices on these windows for your particular home, if you care to send us their names and addresses. Just clip the postal card below, fill in and mail. No stamp is required. No salesman will call on you.

DETROIT STEEL PRODUCTS Co., Detroit, Mich.

I would be glad to have my (Architect) (Contractor) receive prices on Fenestra Casements for the new house I am building.

Architect's name.....

Street.....

Town, State.....

Contractor's Name.....

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I understand this implies no obligation on my part whatever and that your salesman will not call on me.

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Build with

Arrow Brand

TIDEWATER RED CYPRESS

for

BEAUTY
ECONOMY
AND
LIFETIME
DURABILITY



FLORIDA LOUISIANA RED CYPRESS COMPANY
JACKSONVILLE, FLORIDA

HIGHLIGHTS IN THE ROMANTIC HISTORY OF TIDEWATER RED CYPRESS

. . . . to serve you as a guide

THE Cypress tree is of very ancient lineage. Before the Ice Age it grew only on hills, but as the climate changed through the ages the Cypress tree retreated into the warm swamplands to the southward. Through centuries of adaptation to its environment and an age-long battle with the ever-changing agencies of nature, Cypress developed an inherent degree of resistance to destructive forces not found in most other woods.

In ancient days Cypress was used for building mummy cases and images of the Gods. The Cypress sarcophagi when taken from the tombs of the Egyptian Pharaohs, after being buried more than 3,000 years, were still in an excellent state of preservation. The statue of Jupiter, carved out of Cypress, is stated by Pliny to have existed 600 years without showing signs of deterioration. The Cypress doors of St. Peter's in Rome, when moved by Eugenius IV were still sound although they had served for 1100 years.

In relatively modern times an outstanding example of the lasting quality of Cypress is Mount Vernon, home of George Washington. Some of the heart Cypress shingles laid on the roof of this famous structure in 1743 were still giving service in 1918—175 years later. Within the past two centuries hundreds of historic American homes, constructed entirely of Cypress by their foresighted owners, have withstood the ravages of Time and the Elements down through generation after generation.

History then provides an authentic background for Tidewater Red Cypress and substantiates conclusively its right to the title of "The Wood Eternal."

Today the most universally used building material is wood. It is unquestionably the more adaptable and more economical material for home construction. Of the various species of wood commercially available in quantity, Tidewater Red Cypress, because of its beauty, versatility and its resistance to the deteriorating effects of moisture, humidity, contact with soil, termite, and decay causing fungi, offers most for your building dollar.

FLORIDA LOUISIANA RED CYPRESS CO.
JACKSONVILLE, FLORIDA

Before you build · CONSIDER THE MANY ADVANTAGES TIDEWATER RED CYPRESS OFFERS

DURABILITY ON THE OUTSIDE

● The material you select for the exterior of your home should insure permanent weather-tight protection. For uncompromising durability despite every disintegrating influence of Nature, Tidewater Red Cypress has no equal.

BEAUTY ON THE INSIDE

● Today Cypress is recognized also as the ideal material for beautiful interior decoration. Its exquisitely figured grain offers unlimited possibilities for trim, paneling, marquetry and colorful interior finishes.

VERSATILITY

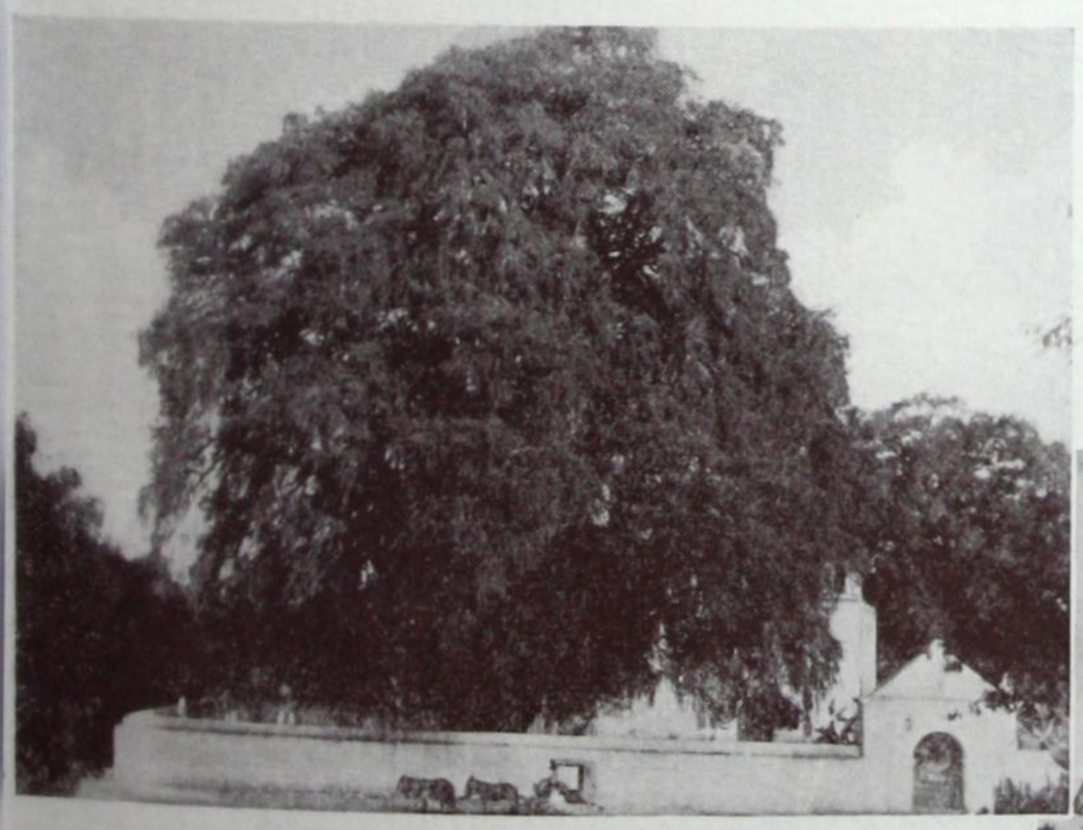
● Cypress is an all-purpose lumber and can be efficiently and economically employed for practically every portion of the home or out-building. Wherever it is proper to use wood, there is an advantage in using Cypress.

LOW UPKEEP EXPENSE

● Because of its unparalleled endurance under all conditions of exposure, Arrow Brand Cypress definitely eliminates periodical repair and upkeep expenditures. When you build properly of this Cypress your initial investment is thoroughly sound and, generally over long periods of time, is your final cost.

LIFE-TIME SERVICE

● There exists today throughout the South Colonial homes which are housing comfortably the fifth and sixth generations of the original builders. These homes were built entirely of Cypress, some more than 200 years ago. Today this same Genuine Tidewater Red Cypress is available to you. Whether you plan to remodel or rebuild, specify this durable wood with the assurance of economical lifetime service.

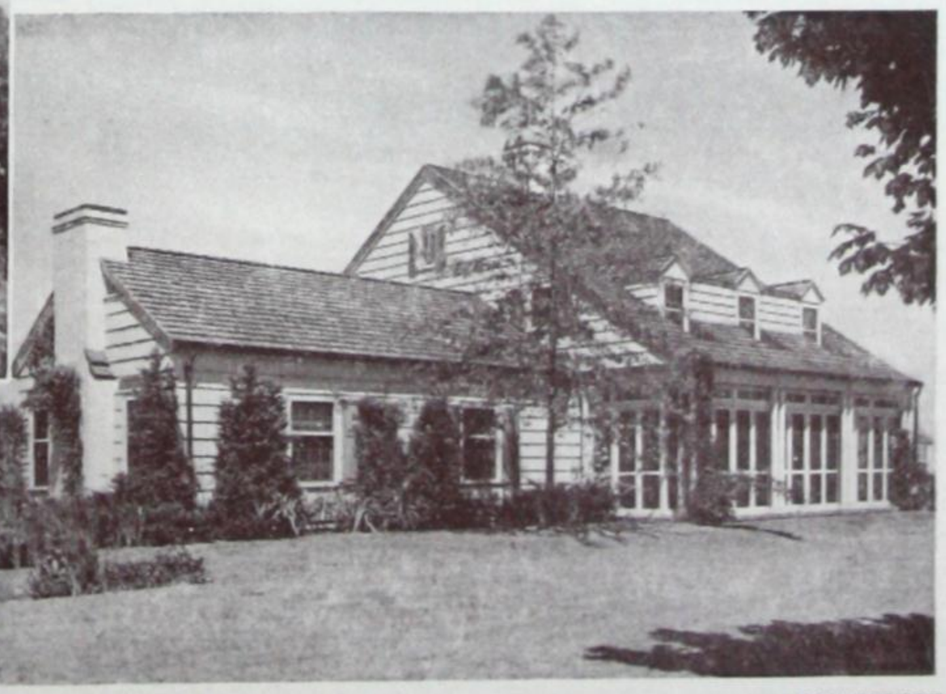


AS THE OWNERS DESIRED IT

● The owners of this Long Island home found Cypress ideally adapted to their own personal ideas on exterior beauty and durability, and distinctive interior decoration.

THE OLDEST LIVING THING

● In the churchyard at Santa Maria del Tule, Mexico, stands this hardy Cypress tree estimated by Dr. Herman Van Schrenck, timber expert, to be over 5,000 years of age. It is the oldest living thing on earth.



DWIGHT JAMES BAUM — ARCHITECT

Always specify **ARROW BRAND TIDEWATER RED CYPRESS**

HOMES OF CYPRESS ARE HOMES OF *Beauty*



HENRY C. PELTON — ARCHITECT

● Desiring something different in a durable exterior, the owners of this home in Greenwich, Connecticut, used hand-rived heart cypress shingles for both roof and sidewall. Aside from the very artistic effect they produce it would not be surprising to find these same shingles giving efficient service 100 years hence.

● In Montclair, New Jersey, this modest home exhibits the weather-tight combination of Cypress siding and Cypress shingle roof. Whether for large or small home, Cypress and economy go hand in hand.



ARTHUR T. REMICK — ARCHITECT



● Living within a few hundred miles of many of the great tidal swamps where Arrow Brand Tidewater Red Cypress originates, the owners of this charming Jacksonville, Florida, home used it exclusively for all exterior woodwork. In addition to the siding, the door and window frames, porch columns and trim are all heart cypress.

● Of early American architecture, this hillside home in Bronxville, New York, shows a generous use of cypress. With roof and sidewalls of cypress shingles and all other exposed portions of heart cypress, here is a home exterior designed to last for generations without the need for replacement.



ARTHUR T. REMICK — ARCHITECT

● This delightful home in Jacksonville, Florida, is still in its early youth. As the years pass its beauty and charm will remain intact because it is built almost entirely of cypress.

● A far cry from Florida's mild climate is this typical Long Island home. Despite the rigors of northern winters, it, too, will age gracefully with its heart cypress exterior continuously giving weather-tight protection.



W. KENYON DRAKE — ARCHITECT



AYMAR EMBURY, II — ARCHITECT

HOMES OF CYPRESS GROW OLD *Gracefully*

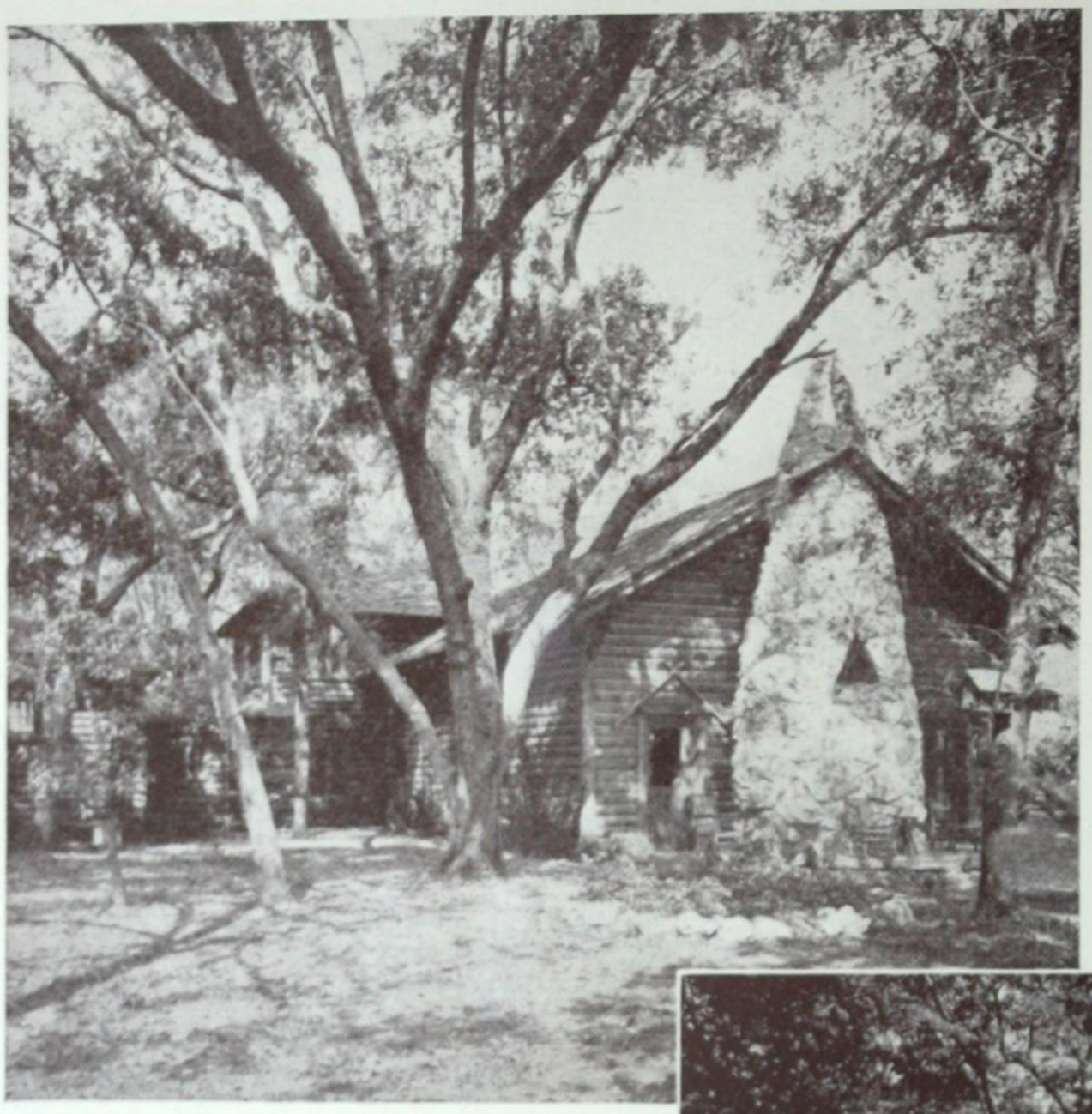
A PERMANENT TRIBUTE TO THE OWNER'S GOOD JUDGMENT

HOME builders, who of their own volition or upon the advice of an architect, plan and build their homes of Tidewater Red Cypress erect a permanent tribute to their good judgment. Regardless of the locality in which you live, whether north, south, east, west, seaboard or inland, you can build with Cypress with the definite assurance that the durability of this wood is unaffected by varying climatic conditions.

Cypress should not be thought of merely as a lumber for the more elaborate or expensive home. Actually, over long periods of time, Tidewater Red Cypress is the most economical lumber you can buy for any type of home or outbuilding. The use of Cypress is safe and cheap insurance against the premature and serious depreciation of your entire investment. Though the original cost of Cypress may be a trifle more, it is offset many times over through the elimination of early and frequent repairs and replacements. Irrespective of the nature or size of the structure, the substitution of inferior materials to reduce your initial expenditure is false economy.

When you build or remodel specify Arrow Brand Tidewater Red Cypress. Specify it not only for the exterior portion of your home, but for the interior wood-work as well.

WHETHER FOR MODEST SURROUNDINGS OR LARGE ESTATE, HOMES OF CYPRESS ARE A WISE, *Money-Saving Investment*



SAM STOLTZ — DESIGNER AND BUILDER

● Here is sylvan charm at its peak. This Pecky Cypress Log Cabin at Winter Park, Florida, adapts itself so naturally to its woodland setting as to seem to have almost grown up with it. For homes, hunting lodges and fishing camps, Cypress Log Cabin Siding gives rustic permanence without the need for special care and treatment. Often left unpainted, Cypress weathers naturally to a beautiful silver gray.



HUSZAPH AND HILL — ARCHITECTS

● With its background of verdant foliage, this residence in Winnetka, Illinois, fits snugly into its forest-like frame, its Cypress exterior in full accord with the environs. Despite the overhanging trees and close proximity of abundant plant life, both productive of fungus growth, the roof and sidewalls of this home will remain weather-tight indefinitely.

HOMES OF CYPRESS *Blend* WITH NATURE

CYPRESS bestows upon your home an enduring beauty that harmonizes perfectly with trees, shrubbery and lawn. No matter how elaborately landscaped, or how simple and rustic the surroundings may be, a home of cypress lends that subtle air of rightness for which every home-owner strives. Its warmth —to the eye and to the touch—which the passing years do not destroy, but rather add a mellowness, makes a home of cypress and its setting a harmonious whole. Truly, cypress blends with Nature.

CONSIDER THE UNEQUALLED VERSATILITY OF CYPRESS

NO wood can compare with Tidewater Red Cypress for its all-around efficiency as all-purpose lumber. Its unparalleled durability makes it the preferred wood for exterior use. Beauty of grain, even texture, and paintability establish it as outstanding for interior finish and trim. Tough, rugged, decay-defying when it needs to be, yet possessing characteristics which demand its use for soft, artistic, decorative effects as well. There is no place where it is suitable to use wood that Cypress cannot serve better, longer and more economically.

● The living room of this California home shows the interesting combination of smooth Cypress wall panels with a beamed ceiling of pecky Cypress.

● The panel below gives some idea of the interesting possibilities the beautifully designed grain of Cypress affords. Richly shaded grain patterns of infinite variety lend themselves readily to any desired treatment.





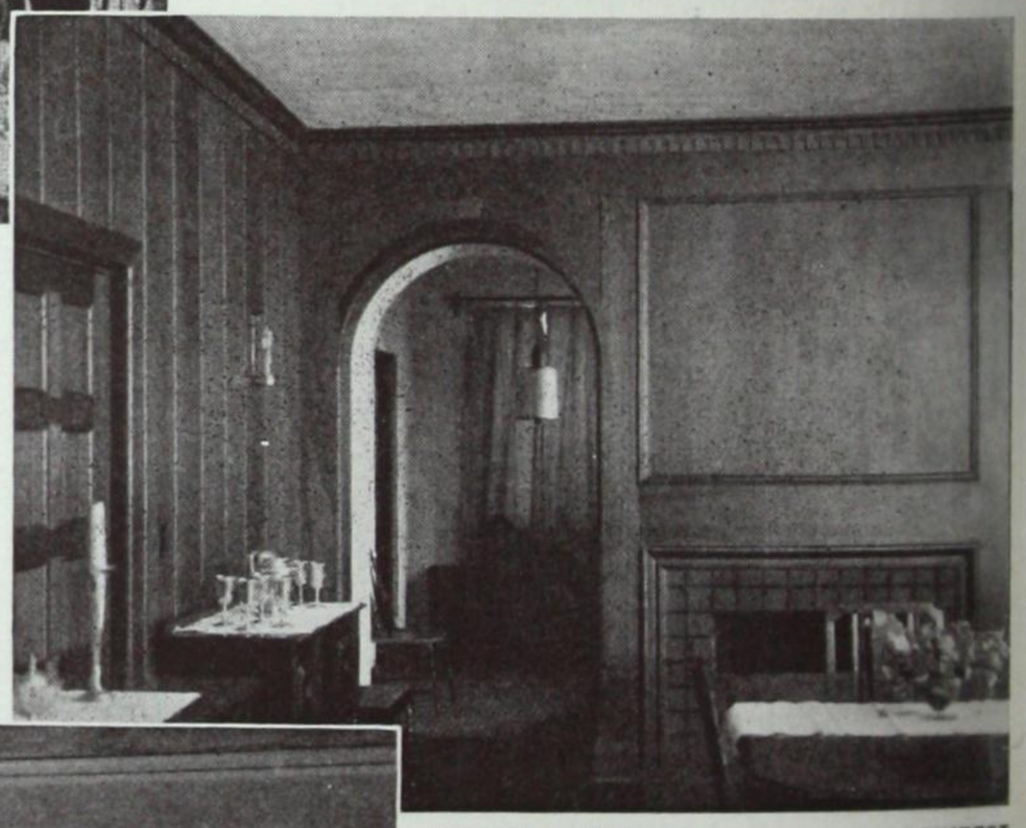
THE effects which may be produced with Cypress are almost unlimited. Left natural it weathers to a beautiful silver grey. When stained, varnished or waxed, the exquisite beauty of its variegated grain is emphasized. It can be effectively tinted any desired color or shade. Through the use of the Japanese treatment known as "sugi" (charred by a blow torch and then rubbed) the historic and very artistic "driftwood" effect can be reproduced on Cypress with remarkable accuracy. Architects have found that this wood lends itself admirably to the production of many other unique finishes. Pecky Cypress is particularly adapted to the creation of antique effects.

PERMITTING FULL EXPRESSION OF YOUR INDIVIDUAL TASTES

NO matter what effect you desire in a room you can obtain it with Cypress. Here is a wood which harmonizes with any scheme of decoration and which is adaptable to your own particular ideas. Gorgeously marked by nature, it has an individuality of grain design and coloring impossible to duplicate with any other wood. Cypress makes possible the creation of new modes in room treatment and permits full sway of your own personal ideas.

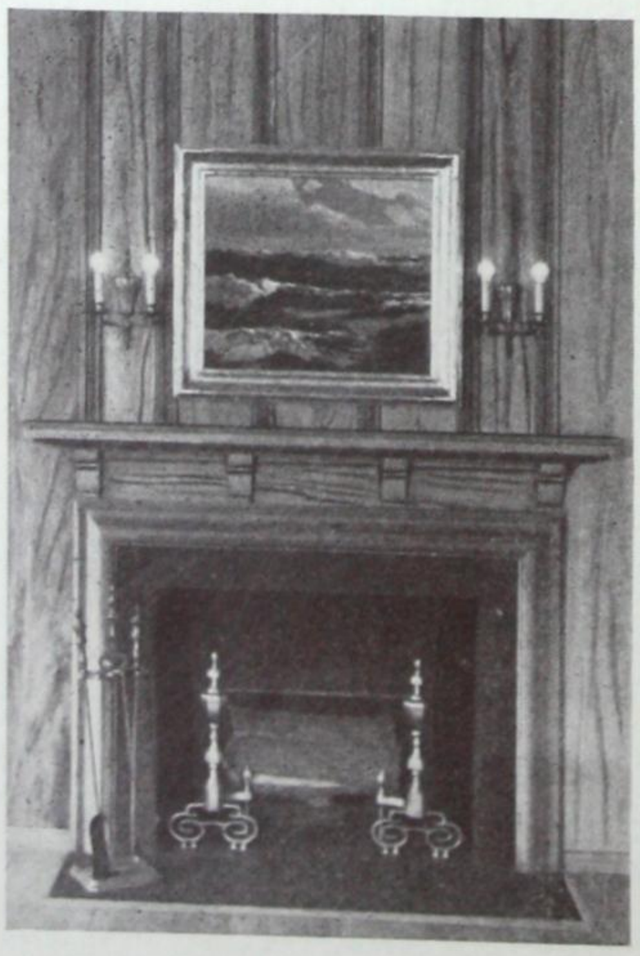


● "Chop your own wood and it will warm you twice," is the inscription which appears on the face of the Cypress mantel of Henry Ford's Trophy Room. This interesting mantel and the rugged pecky cypress half-timber work are in full keeping with the rough stone fireplace of which they form a part.



● In contrast, note the soft, cool effect obtained by the use of cypress paneling in the dining room of this Florida home. Here simplicity rules and an effect of tranquil beauty has been achieved.

MELLEN C. GREELEY ARCHITECT





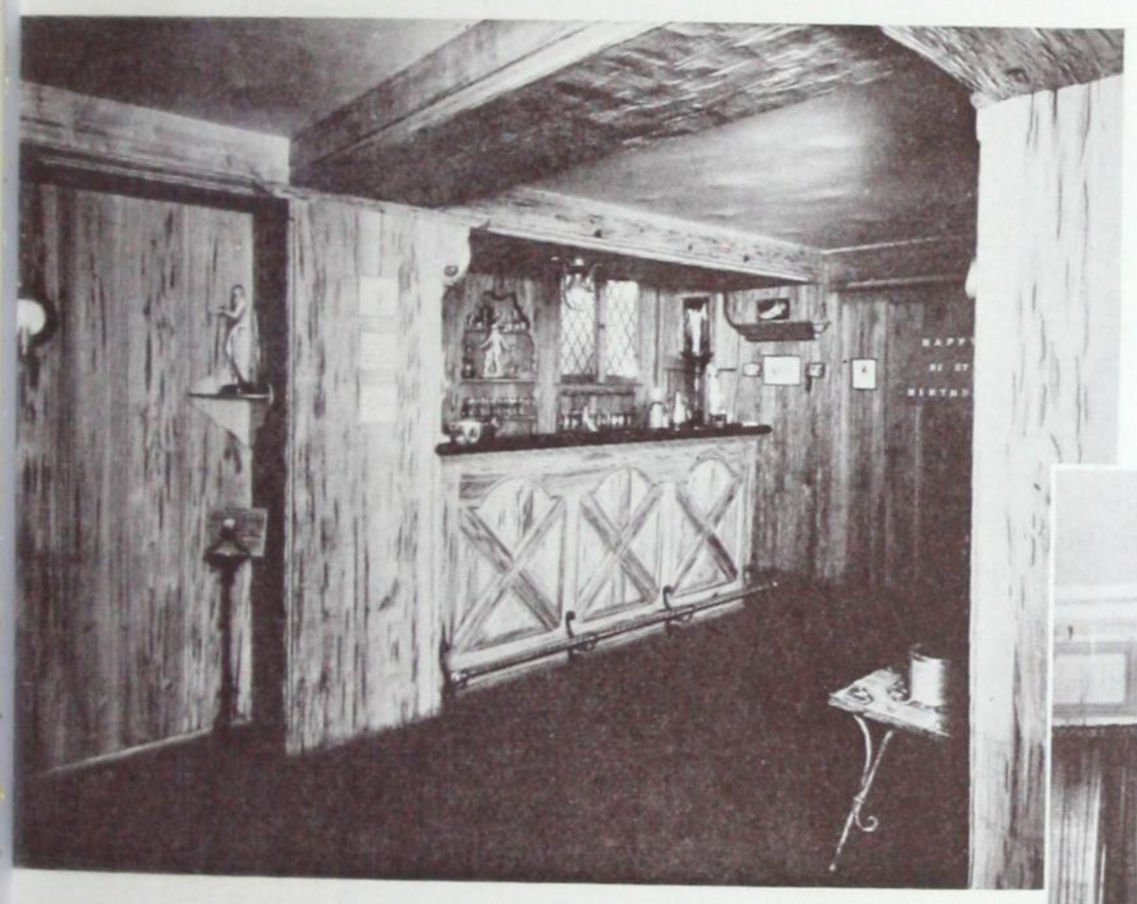
GEORGE B. ROGERS ARCHITECT

● An atmosphere, both pleasing and individual, has been given to this lumber company office in Irvington, New York, through the use of smooth Cypress boards of varying widths and grain patterns, marked off into panels with moulding.

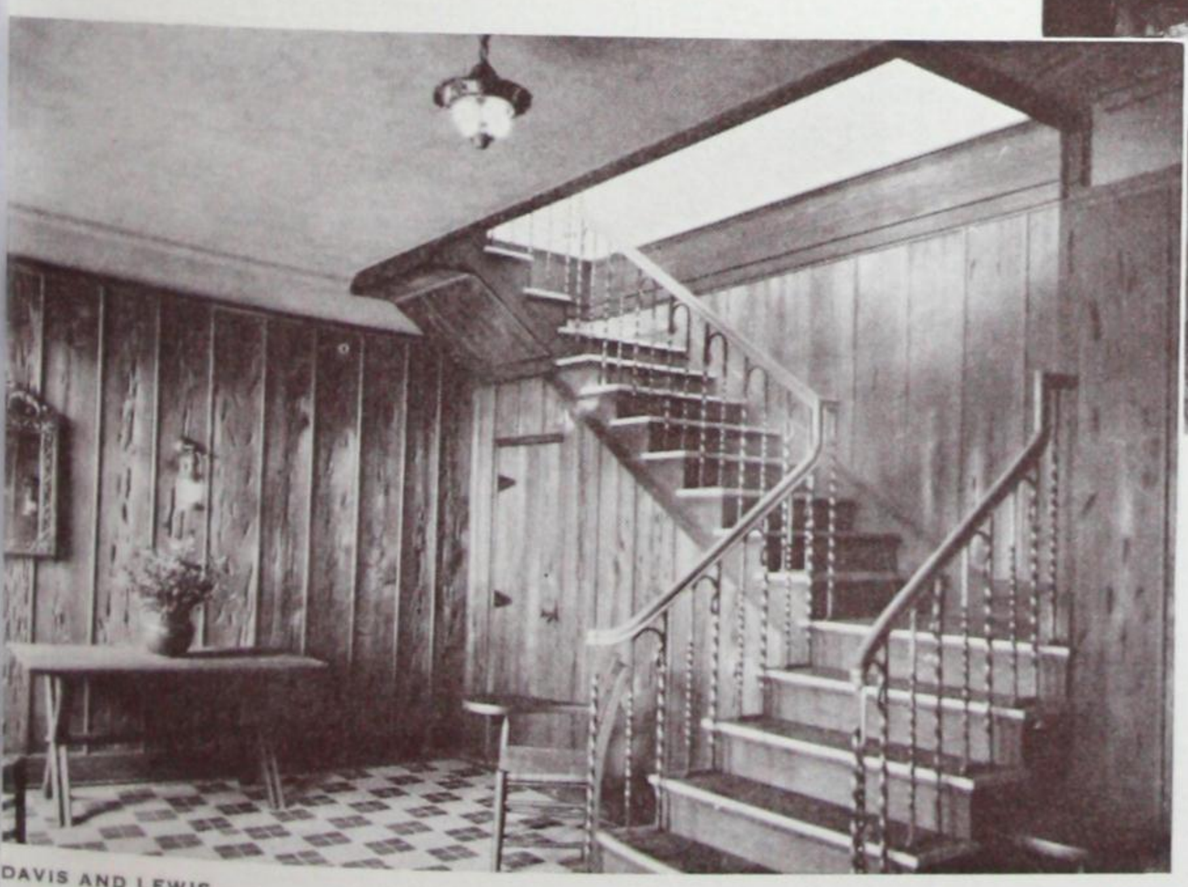
● How cheerful is the corner of this breakfast room in a Spring Hill, Alabama, residence. All of the woodwork, including floor and ceiling is of Tidewater Red Cypress.

PECKY CYPRESS FOR *Antique* EFFECTS

PECKY CYPRESS, because of its "honeycombed" surface, has a natural "aged" appearance and striking antique effects can be obtained with this extraordinary wood. For individuality in interior decoration, no other material offers as many possibilities. Especially suited for half-timber work, paneling and trim, unique and delightful finishes of smart distinction and unequalled charm can be created.



● This modern bar in a Cleveland, Ohio, home gives some idea of the effects which can be created with pecky cypress. Note the rough-hewn pecky columns and beams and the finished "pecky" wall and bar front panels. Surely here is charming individuality.



DAVIS AND LEWIS ARCHITECTS

● The walls of this pleasant living room in Palm Beach, Florida, are of natural pecky cypress, whitewashed and marked off into panels with moulding. With this treatment an atmosphere of early Colonial days is given to this modern interior.



HOWARD MAJOR ARCHITECT

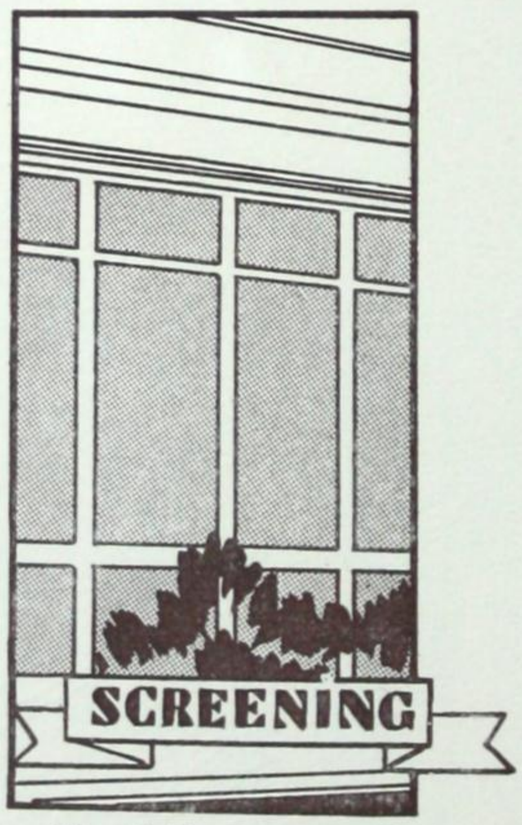
● There is a nautical feeling to the foyer in this Scranton, Pennsylvania, residence. One can almost visualize the wide pecky cypress wall panels as having been eroded by the action of the sea in some age-old sunken vessel.

GUARD *the* WEATHERPOINTS *with* CYPRESS

HERE ARE SHOWN THE VITAL SPOTS IN YOUR HOME...INSURE THEM AGAINST DECAY AND WEATHER WEAR BY BUILDING THEM OF ARROW BRAND TIDEWATER RED CYPRESS



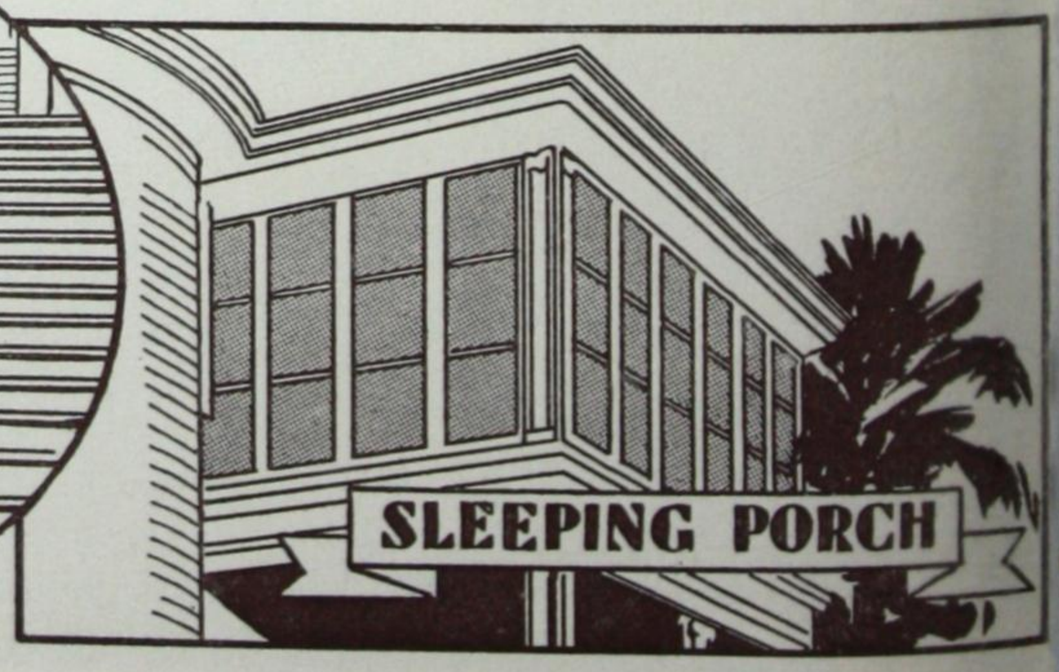
Heart Cypress columns resist termite attack and the decaying influence of moisture from rain or snow.



• Screen frames of cypress are unaffected by alternate wetting and drying from rain and sun.

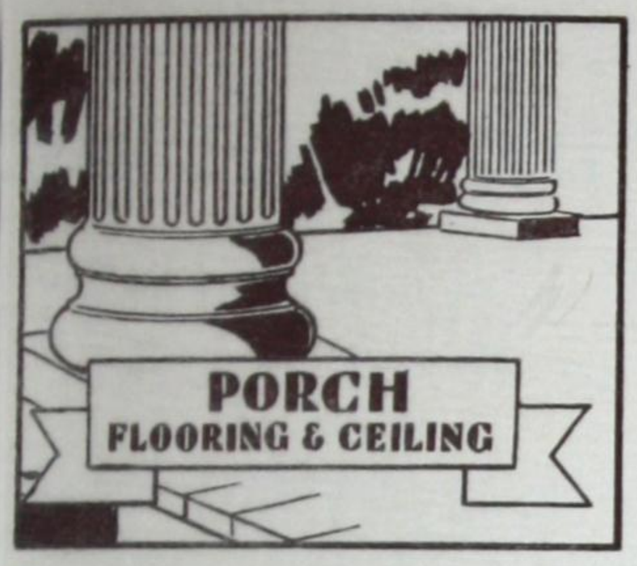


• Contact with damp soil and growing plants does not rot out cypress posts and stepping. Sills and floor joists should also always be of heart cypress.



THE exterior of your home is the guardian to your whole investment, for your home will endure only so long as its exterior withstands the constant exposure to the deteriorating effects of Time and the Elements.

Each one of the places shown here is subject to depreciation from the effects of either sun, rain, moisture, termite or fungus growth of some description. Repairs to sills, floor joist, and the replacement of siding, columns, door and window frames and roof coverings are costly. Build these vital points of heart Cypress with the knowledge that you have not only given your home life-long protection against decay and premature weathering, but have saved countless dollars in eliminated repair and replacement.



• Porch floors of cypress withstand the extreme surface wear and eliminate the double danger of decay from moisture collecting on the surface and dampness developing from underneath.

• Built of heart cypress, door frames last indefinitely despite constant exposure to varying atmospheric conditions and temperatures from inside and out.





Tidewater Red Cypress, Heart Grade, defies decay, is unaffected by contact with damp soil or growing plants, and resists the attacks of termite and other wood-boring insects. It costs but very little more to use this cypress and the few extra dollars invested initially will be more than offset by a lifetime service free of upkeep expense. For long-run economy in home construction, no other wood can compare with Cypress.

A home of Cypress grows old gracefully, its appearance and soundness will be inexpensively preserved through generations of service. When you build or remodel, specify Arrow Brand Tidewater Red Cypress, Heart Grade, for every exposed point where wood meets weather.



• Exposed to every weather change, window frames, sash and shutters should always be of cypress. Repairs to frames and sash are always expensive. Permanently avoid the need for this expense by making them of heart cypress.

• Water seepage from roof and eaves caused by rain or snow does not affect the durability of cypress cornice and trim. The use of cypress at these vital points is true economy.





• Porch railings of Heart Cypress never rot out.

• The roof and sidewalls of your home are its most important parts. To be assured of permanent weather-tight protection build them of Heart Grade Arrow Brand Tidewater Red Cypress.



CYPRESS ASSURES A HOME OF LIFETIME DURABILITY

THE RAVAGES OF TIME AND THE ELEMENTS ARE HELPLESS AGAINST *"The Wood Eternal"*

● In 1770 an eccentric lady in Charleston, South Carolina, willed that the headboard of her bed should be used as her grave marker. Her judgment has been justified for the inscription on the Cypress board remained legible long after neighboring stone inscriptions had been effaced.





● The oldest frame house in the oldest American settlement. Built in St. Augustine, Florida, more than 250 years ago, the original Cypress, unpainted, is weather-tight today. Even without the protection of paint, the heartwood of Cypress defeats weather at every turn.



● Built by slaves before the Revolution, the old Osborn House in Charleston, South Carolina, gives indisputable evidence of the remarkable durability of Cypress. Inside and out, every piece of woodwork in this unique structure is of Cypress which is still in excellent condition after 200 years.

MOST of the famous and beautiful ante-bellum mansions and homes in the South and other sections of the country were constructed entirely of Cypress — from foundation to roof. In those early days homes were built to endure, not only for the present generation, but for the generations to come. There are homes in Louisiana built of Cypress more than a century ago, which are still comfortably sheltering descendants of the original builders.

With such an authentic background to confirm its uncompromising durability, present-day home builders can, with utmost confidence, depend upon Tidewater Red Cypress for lifetime service free of replacement expense.

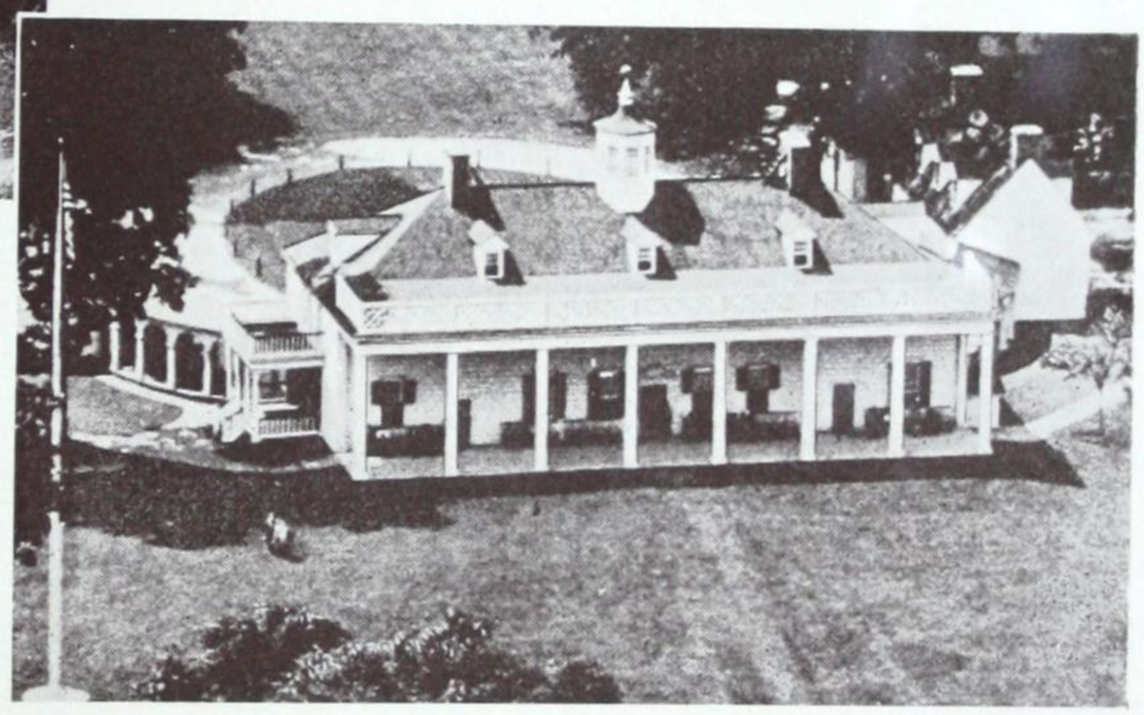
● Built before 1800, this beautiful old Colonial mansion is still in a remarkable state of preservation, and stands as eloquent testimony to the enduring qualities of Tidewater Red Cypress.





● Constructed of Tidewater Red Cypress in the early 1800's, this famous southern landmark near New Iberia, Louisiana, is still in good condition today.

● George Washington wrote, "Nothing but durable materials shall be used in this house." As evidence of his sound judgment, some of the heart Cypress shingles laid in 1743 were still giving service on Mount Vernon in 1918—175 years later. For nearly 200 years, the roof of this historic home has been continuously of Cypress.



AMERICA IS STILL TOO YOUNG TO KNOW HOW LONG CYPRESS CAN ENDURE

THE finger of age has lightly touched these fine old homes and left only a mellow trace of charm. For age brings only charm to Cypress. Wherever man has built properly of this wood, Time and Nature seem only to have enhanced the fairness of his efforts. Many homes built both beautifully and strongly in Colonial days are still standing and offer convincing testimony to the inflexible enduring qualities of this wood. These homes and the New Country, born together, are both still too young to know how long this wood can endure.

The same Cypress of which these early American homes were constructed is available to present-day home builders. Arrow Brand Tidewater Red Cypress, logged from tidal swamplands, leisurely and thoroughly air-seasoned to assure freedom from the dimension change when in service, and carefully and precisely manufactured, is the same Cypress our forefathers used in building these more-than-century-old homes. Truly, this Cypress is "The Wood Eternal" and certainly, the maximum value in lumber today.

FREEDOM FROM UPKEEP AND REPAIR BILLS

ONE of the most SATISFYING FEATURES of CYPRESS

WHAT a wonderful sensation it is to see your own home rise up in all its newness. But how discouraging when, after a few short years, you find you are forced to make replacements. A leaky roof, a rotted cornice, a sagging porch pillar, or a decayed window sill can easily cause a repair bill that runs into hundreds of dollars. How easy it is for rain to beat in at defective points and ruin walls, decorations and furniture. How difficult, inconvenient and expensive repairs can be after the house is completed.

Nothing is more distasteful than writing checks for repair bills that never should have been necessary. When you build properly with Tidewater Red Cypress your first cost is your last cost. Here is lumber that will never make further demand on your checkbook. Lumber that gives lifetime insurance against weather damage and assures freedom from repair bills. When you build or remodel use Arrow Brand Tidewater Cypress, selecting the correct grade for the purpose intended. For all exposed woodwork always specify heart grade Cypress.

TERMITE RESISTANT

THE Bureau of Entomology, United States Department of Agriculture, states that no wood has yet been discovered that is absolutely immune to the attack of termites. This Bureau, however, pronounces the heartwood of Tidewater Red Cypress as one of the best termite resistant woods grown in the United States. Science has not yet been able to determine with accuracy the reason for this valuable property of Cypress. One solution has been offered by the presence of a resin-like substance, "Cypressene," which is contained in the heartwood of the tree, and is believed to act as a natural preservative against the attacks of insects and decay.

Architects, builders and home owners should remember this very definite asset Tidewater Red Cypress possesses—its heartwood offers positive resistance to the attack of termites and other wood-destroying insects.

CYPRESS TAKES AND HOLDS PAINT WELL

EXTENSIVE experiments by Government Departments and by independent paint experts show conclusively that Cypress lends itself excellently to painting. No special kinds of paint, no unusual proportioning of paint ingredients and, in fact, no departures from approved paint processes are required. In the 10-year test conducted by the U. S. Forest Products Laboratory to ascertain the relative paintability of various woods, Tidewater Red Cypress proved to be one of the best in its ability to take and hold paint.

The natural elements in Cypress make a perfect bond between this wood and paint. Because of the exacting manufacture and the long seasoning process which Arrow Brand Tidewater Red Cypress undergoes before it is put on the market, a velvet smooth finish coat will result when this lumber is painted.

Beautify THE HOME SURROUNDINGS

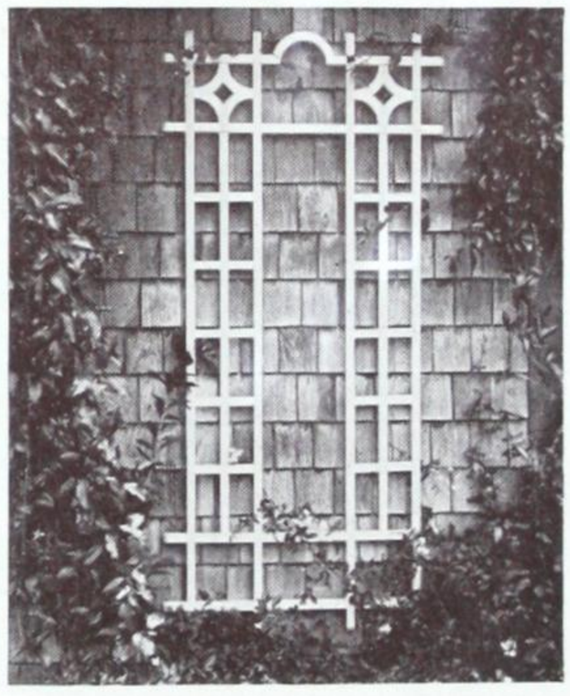
WITH ATTRACTIVE ITEMS OF CYPRESS FOR LAWN AND GARDEN

NO matter what size or type of lawn or garden you may have there is always need for such decorative and useful pieces as lawn furniture, pergolas, arbors, trellises and fences. When hey are attractively designed and built of the proper wood they are a definite asset in mproving the appearance of the home surroundings. Naturally, such items because they are :onstantly in contact with damp soil and growing plants, and continuously exposed to the veather and termite attack, should be constructed of Tidewater Red Cypress.

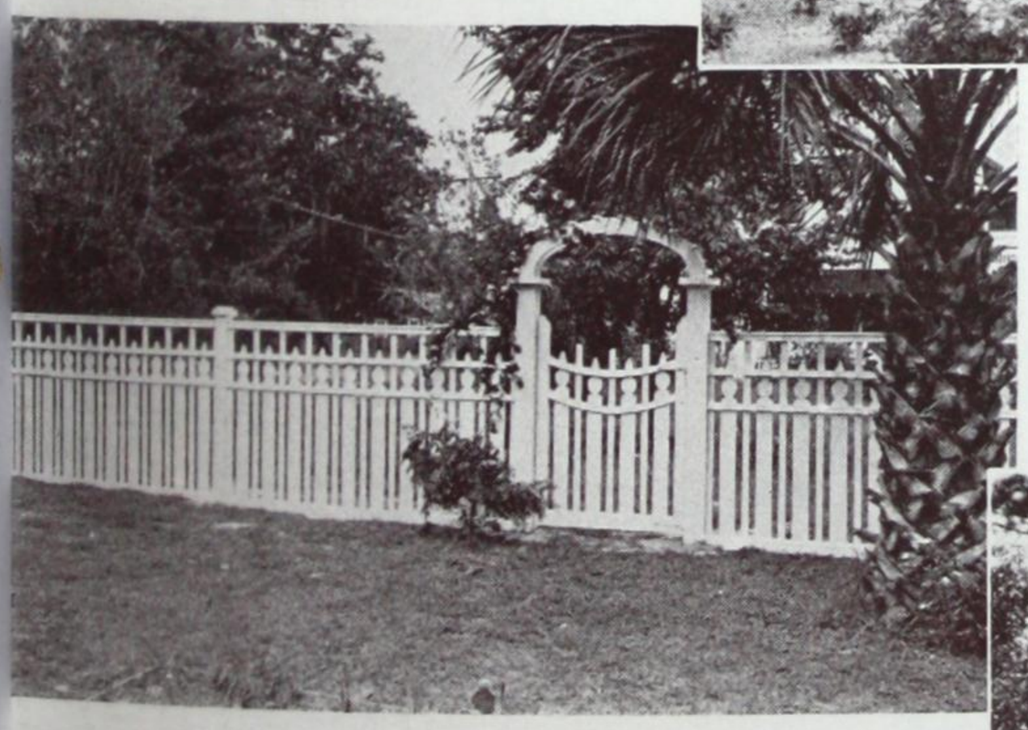
'here is a place in every American home for these garden accessories, perhaps just a seat)eneath a shady tree, a trellis for vines near the porch, or lattice to screen some undesirable iew. A terrace or porch may be made into an outdoor living room through the use of lawn :hairs, tables and benches. As practical as they are artistic and durable when built of Tide-vater Red Cypress, they make the outside of your home just as livable as the interior.

● This cypress arbor with eats in the garden of a ıome overlooking the St. ohns River near Palatka, 'lorida, furnishes its owner vith a restful place of cool, [uiet seclusion.

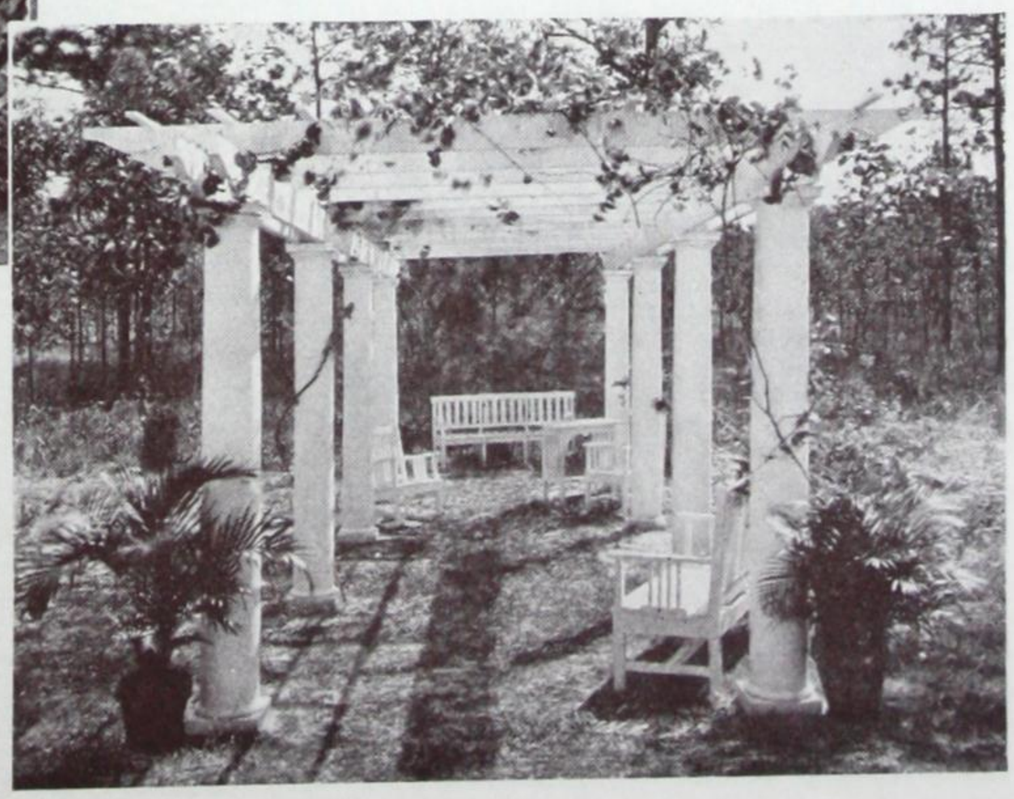




● Inexpensive, the use of Cypress trellis simplifies the raining of vines along side-valls and porches.



● Though constantly in contact with soil and exposed to termite attack, this ornamental fence of cypress gives beauty and permanent protection to the garden of a Florida home.



● This handsome pergola of graceful proportions with the accompanying lawn furniture would be a worthy adornment to the most elaborately landscaped garden. Built entirely of heart cypress, the need for expensive repairs will never come despite the exposure to sun, rain, heat, cold, and termite.

THE LOGICAL CHOICE FOR GARAGES AND ALL OUT-BUILDINGS

TO HELP them in their FIGHT AGAINST the ELEMENTS

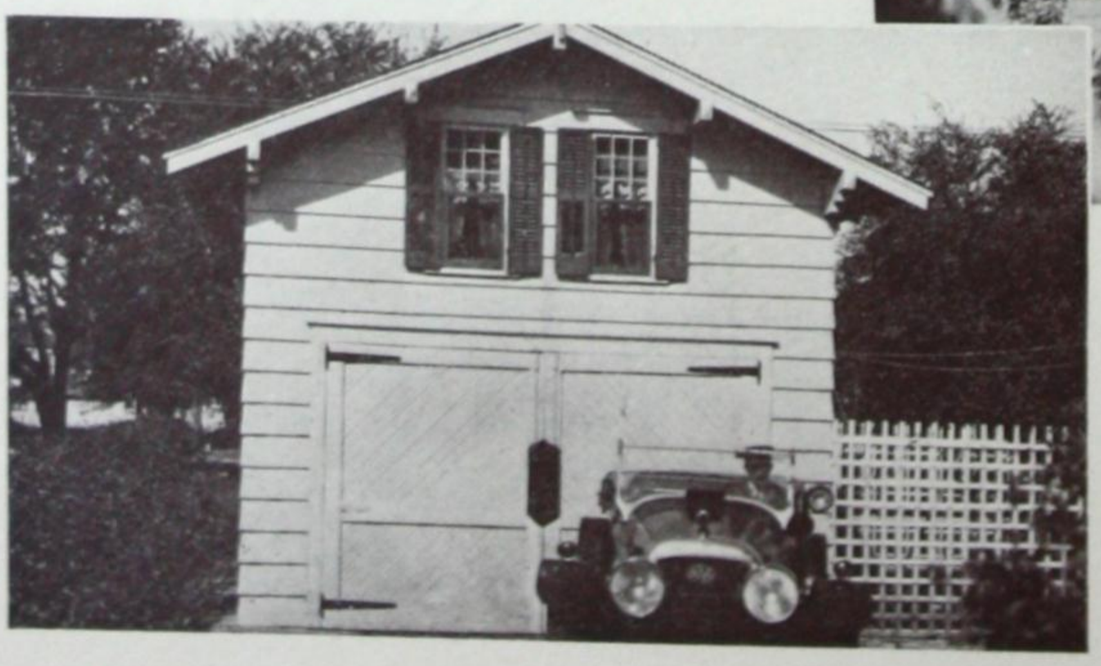
EVERY home, whether on a farm, in a small town, or a big city, has need for out-buildings. These buildings should be just as attractive and just as durable as your house. Garages and similar structures play a big part in making your residence the beautiful place you want it to be. Most of these structures have relatively more exposed surface than the average house, and the need for protection against decay and expensive repair bills and replacements is as great, if not greater. Repairs on your out-building can be just as expensive as repairs on your house. For beauty and low upkeep, then, use Arrow Brand Tidewater Red Cypress in its proper grade for every building on your property.



● Garage, chauffeur's quarters, and stables on a Westchester County, New York, estate. Despite many decaying influences, this building, constructed almost entirely of cypress, will lose none of its soundness as the years pass.



● This cottage with its charming all-cypress exterior concedes nothing in the way of beauty or durability to its larger and more pretentious neighbors. Rived cypress shingles were used on roof and sidewalls to furnish an effect of charming simplicity.

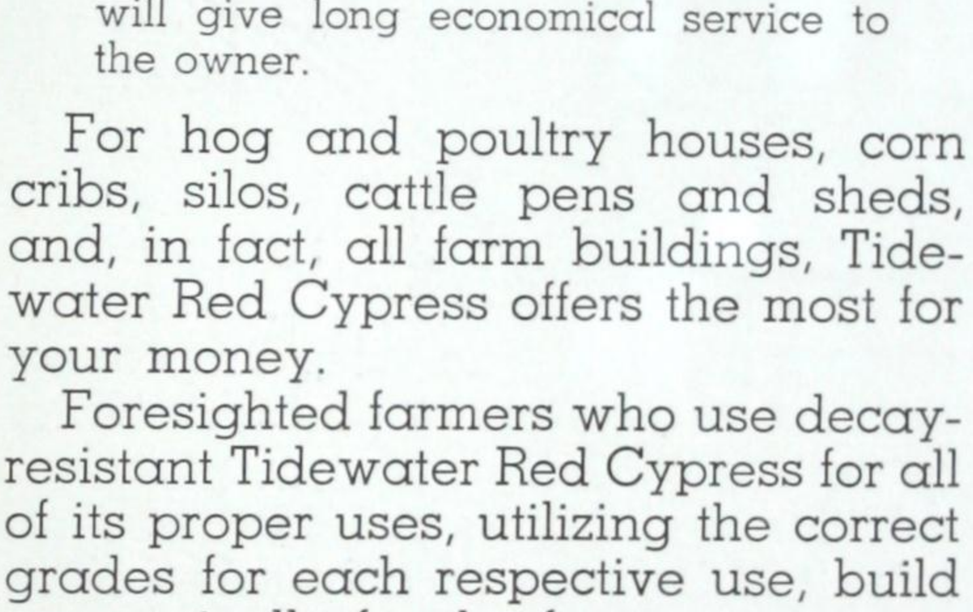


● This combined garage and chauffeur's apartment in Jacksonville, Florida, is in keeping with the attractive home it serves, for in this simple out-building, the owner has duplicated, somewhat, the general architectural style of his home. The wide heart cypress doors will never rot out and sag.

CYPRESS IS A REAL *Money-Saver* ON THE FARM

THE heartwood of Tidewater Red Cypress has proven its ability to serve faithfully and long against two of the most destructive agencies known to wood—decay and termite attack. On the farm, where a high degree of resistance to these influences is essential, Cypress is the most economical lumber you can use. It stops depreciation at the source. Although Cypress is light in weight, soft in texture and easily worked with the simple tools usually found on the farm, it has definite rigidity and nail-holding power. As a general farm utility lumber, Cypress takes and holds paint well, but can be left unpainted indefinitely without its durability being affected.

For dairy houses Cypress offers a two-fold advantage. In addition to its enduring qualities, this wood, because it is chemically inert, will impart no color, odor or taste to the milk, cream or butterfats. Containers in your dairy, such as butter churns, tubs, etc., should, of course, be of this wood.



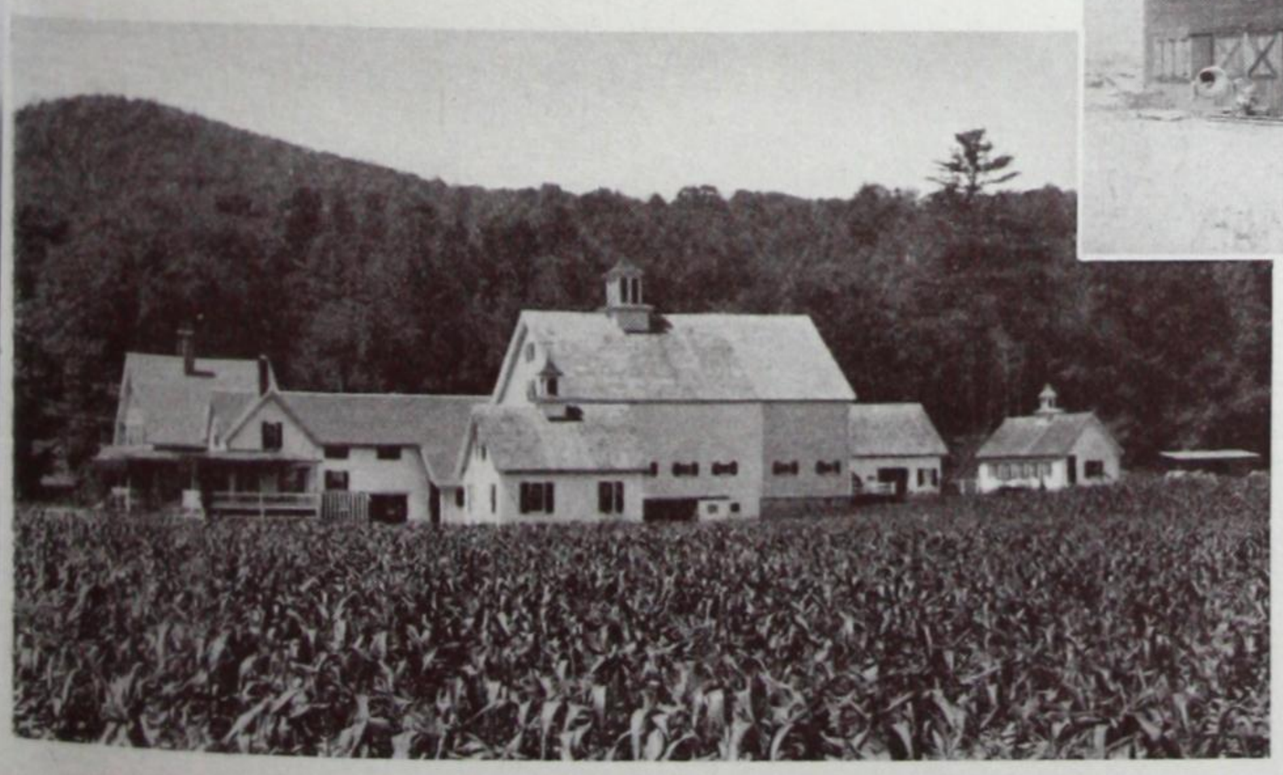
● Built principally of cypress, this farm house and adjoining farm buildings will give long economical service to the owner.

For hog and poultry houses, corn cribs, silos, cattle pens and sheds, and, in fact, all farm buildings, Tidewater Red Cypress offers the most for your money.

Foresighted farmers who use decay-resistant Tidewater Red Cypress for all of its proper uses, utilizing the correct grades for each respective use, build economically for the future.



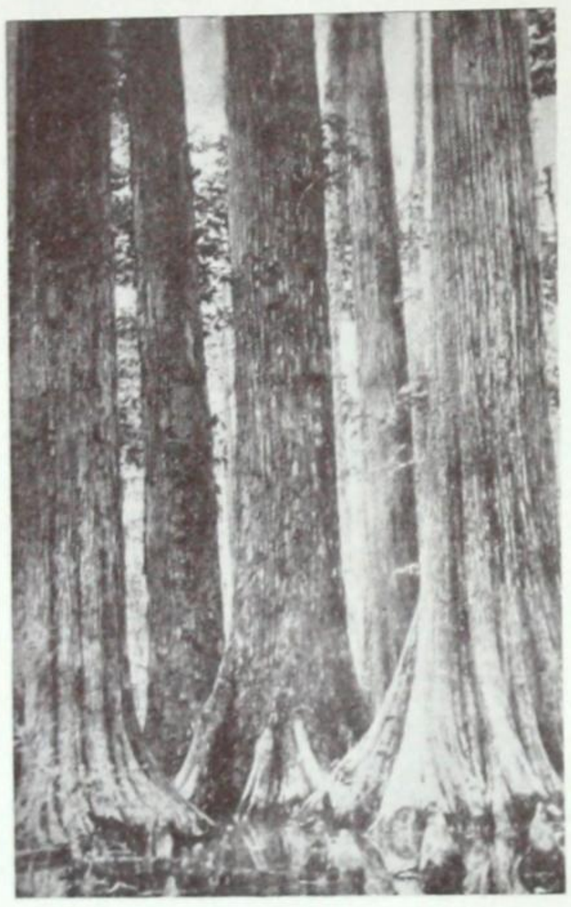
● A vast quantity of cypress was used in the construction of this spacious barn. Melting snows, and the severe service conditions of northern winters will not affect the lifetime durability of the roof of cypress shingles.



● Although far from the warm tidal swamplands of Florida and Louisiana where Tidewater Red Cypress originates, the owner of this typical New England Farm in Maine chose this wood almost exclusively for the construction of his home and adjoining farm buildings.

THE ARROW BRAND

SYSTEMATIC CONTROL OF LOGGING, MANUFACTURING, SEASONING and SHIPPING . . . . *Preserves Nature's Work*



GENUINE Tidewater Red Cypress grows only in the tidal swamplands along the Gulf and South Atlantic Coasts. Perhaps the most costly feature of cypress logging is the necessity for building many miles of mainline and spur roadbeds through these swamps, many of which have water in them the year around. After the trees are felled and sawn into logs, combination skidders snake them by high or ground line cables to the log trains which carry them to the mill.

Every process in the mill — sawing, edging, trimming, etc., is handled with the care befitting a high quality product. As the lumber comes from the saw it is inspected, graded and then carefully piled in the yard for seasoning. It requires from eight months to two years to properly and thoroughly air-season Cypress, and the stacking of this lumber is almost a science in itself. The piles are covered with a board roof and the lumber is stacked at a gentle slope to facilitate the quick shedding of rain water. Ends of the individual pieces are protected with over-hanging spacer boards and additional stripping provides free and complete air circulation through each pile. It is the extreme care taken with this lumber in its seasoning which gives it comparative freedom from warpage and shrinkage when eventually used.

Rough seasoned cypress boards when brought to the planing mill are carefully regraded after dressing. Frequent inspections by the personnel of the Southern Cypress Manufacturers' Association serve as a definite check on the grading of this product.

Cypress is costly to log and manufacture, and an expensive product to store. However, because of the time and care taken in its development, the use of Arrow Brand Tidewater Red Cypress constitutes a sound investment in beauty, durability and service which should be of vital interest to every home builder and user of lumber generally.

The Florida Louisiana Red Cypress Company handles the entire cypress output of the following manufacturers:

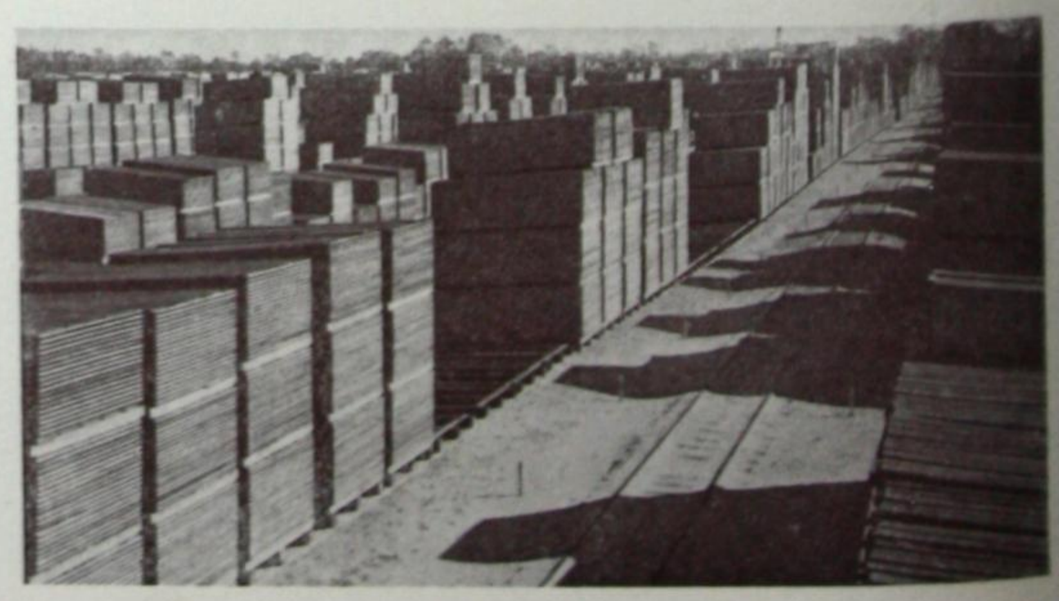
BROOKS-SCANLON CORPORATION
FOLEY, FLORIDA

CUMMER CYPRESS COMPANY
LACOOCHEE, FLORIDA

PUTNAM LUMBER COMPANY
SHAMROCK, FLORIDA

A. WILBERT'S SONS LUMBER & SHINGLE COMPANY
PLAQUEMINE, LOUISIANA

WILSON CYPRESS COMPANY
PALATKA, FLORIDA



BUILD WITH *Arrow Brand* TIDEWATER RED CYPRESS

FOR MAXIMUM SERVICE WITH MINIMUM COST

WHEN ordering Cypress it is important that you specify and obtain Arrow Brand Tidewater Red Cypress—"The Wood Eternal." There are several varieties of Cypress on the market, but Arrow Brand is the superior slow growth Coastal type which has a maximum percent of heartwood, a fine, smooth, even grain, and a record for endurance under the most adverse service conditions that is long and enviable. Only those manufacturers who are members of the Southern Cypress Manufacturers' Association are allowed to use the quality-insuring Arrow trade-mark. The member mills of the Florida Louisiana Red Cypress Company belong to this Association. They maintain a high standard for manufacturing, grading, seasoning and handling this Genuine Tidewater Red Cypress. You can, at all times, depend upon the quality of the lumber they ship.

If you are planning a home or any structure calling for a good-sized investment, it will pay you to get the advice of a competent architect. Experience has shown that a good architect, through his expert knowledge, will save you more than his fee.

This TRADE-MARK IDENTIFIES *Arrow Brand*

EVERY piece of Cypress shipped by the Florida Louisiana Red Cypress Company carries the registered Arrow Brand trade-mark, clearly identifying the item as Genuine Tidewater Red Cypress. Each board is also grade-marked in strict accordance with the rigid specifications of the Southern Cypress Manufacturers' Association.

COMPLETE INFORMATION TO HELP YOU PLAN

IF there is any special information you desire about Arrow Brand Tidewater Red Cypress—its uses, grades, paintability, suitability for specific purposes, its relative cost and names of dealers in your locality who handle it—write to the address below and the information will be promptly supplied.

FLORIDA LOUISIANA RED CYPRESS COMPANY

BARNETT NATIONAL BANK BUILDING • • JACKSONVILLE, FLORIDA

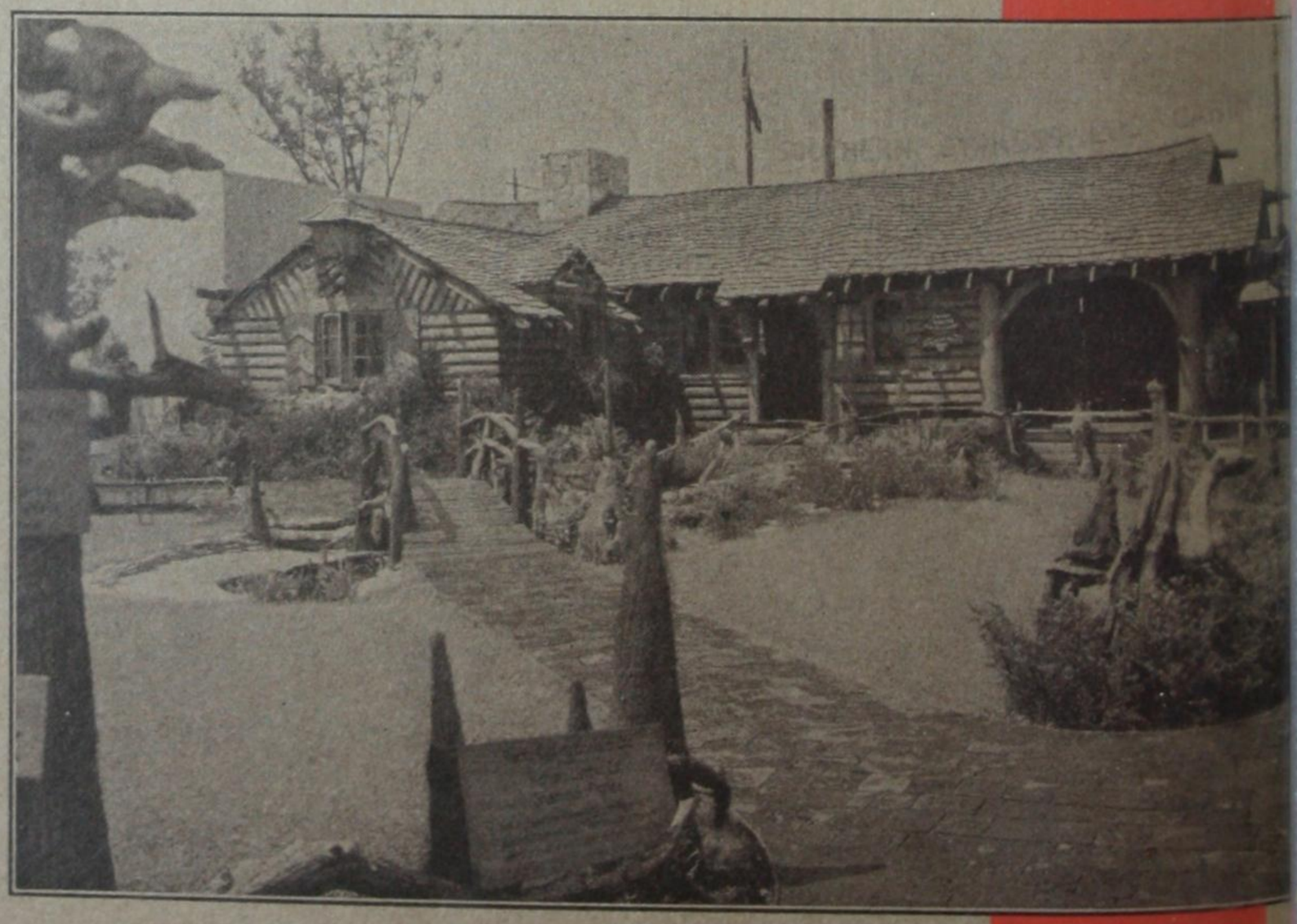
Arrow Brand

TIDEWATER

RED CYPRESS

FLORIDA LOUISIANA RED CYPRESS COMPANY

JACKSONVILLE, FLORIDA



TIDEWATER RED CYPRESS LOG CABIN
AT THE CENTURY OF PROGRESS



MOUNTAIN FRESH · · · OCEAN BATHED

Climate at home

COPYRIGHT 1933, THE FOX FURNACE COMPANY, ELYRIA, O

MAN'S first attempt at conditioning the air was made in heating the air. Little attention has been paid to the condition of air in homes during winter, as long as the air was sufficiently warm.

As heating methods improved, sanitation standards advanced, and as medical science progressed, sickness and disease during the winter months — the heating season — instead of decreasing, have increased at an alarming rate.

This has led to the conclusion which practically everyone suspected: Namely, that the dried out, stagnant atmosphere of American homes was dangerously unhealthful. And that heating the home also played a minor part in making it a comfortable, invigorating, inviting place in which to spend 80% of our lives.

This condition evidences the need for a radical change in heating methods. And with the requirements definitely known, science and engineering have collaborated to supply them with the Air Conditioning System which creates an ideal atmosphere in the home. The Air Conditioning System differs from the old fashioned heating plant just as the balmy climate of Southern Florida and Southern California differs from the dry, burning weather of the equator.

The Same Air Conditioning System that safeguards health in the winter can be equally useful in the summer. For it can cool the air and remove the excessive humidity. On oppressive days and nights it can automatically maintain the temperature which you find most comfortable.

There is no longer any need to go south in the winter and to the mountains or shore in the summer — with the modern Air Conditioning System creating a Mountain-Fresh, Ocean-Bathed Climate at home.

THE FOX FURNACE COMPANY

ELYRIA, OHIO

A DIVISION OF

AMERICAN RADIATOR & STANDARD SANITARY CORPORATION

SHORTCOMINGS OF *Present* HEATING SYSTEMS

FIRES in caves, then fireplaces or grates, then stoves, then central heating plants — this is a brief history of the progress of heating methods up to a few years ago.

There is no comparison between the central heating plant and its predecessors, just as there is no comparison between the old horse-drawn street cars and our present day electric street railways.



But with our changing civilization, there is a need for something that will overcome the shortcon of a mere heating plant. These shortcomings ar serious that they make the winter season a perio worry, even dread, discomfort, extra work, sick damage, and heavy expenses in most households.

Why is there the prospect of discomfort and sick with consequent worry? Because of the uneven peratures in the various rooms, one overheated another too cold; and because of the bad air t found in the average house when it is closed up fo winter months.

Why extra work? Because of the increased amou dirt, dust, soot and smoke that is present in the w air, indoors and outdoors.

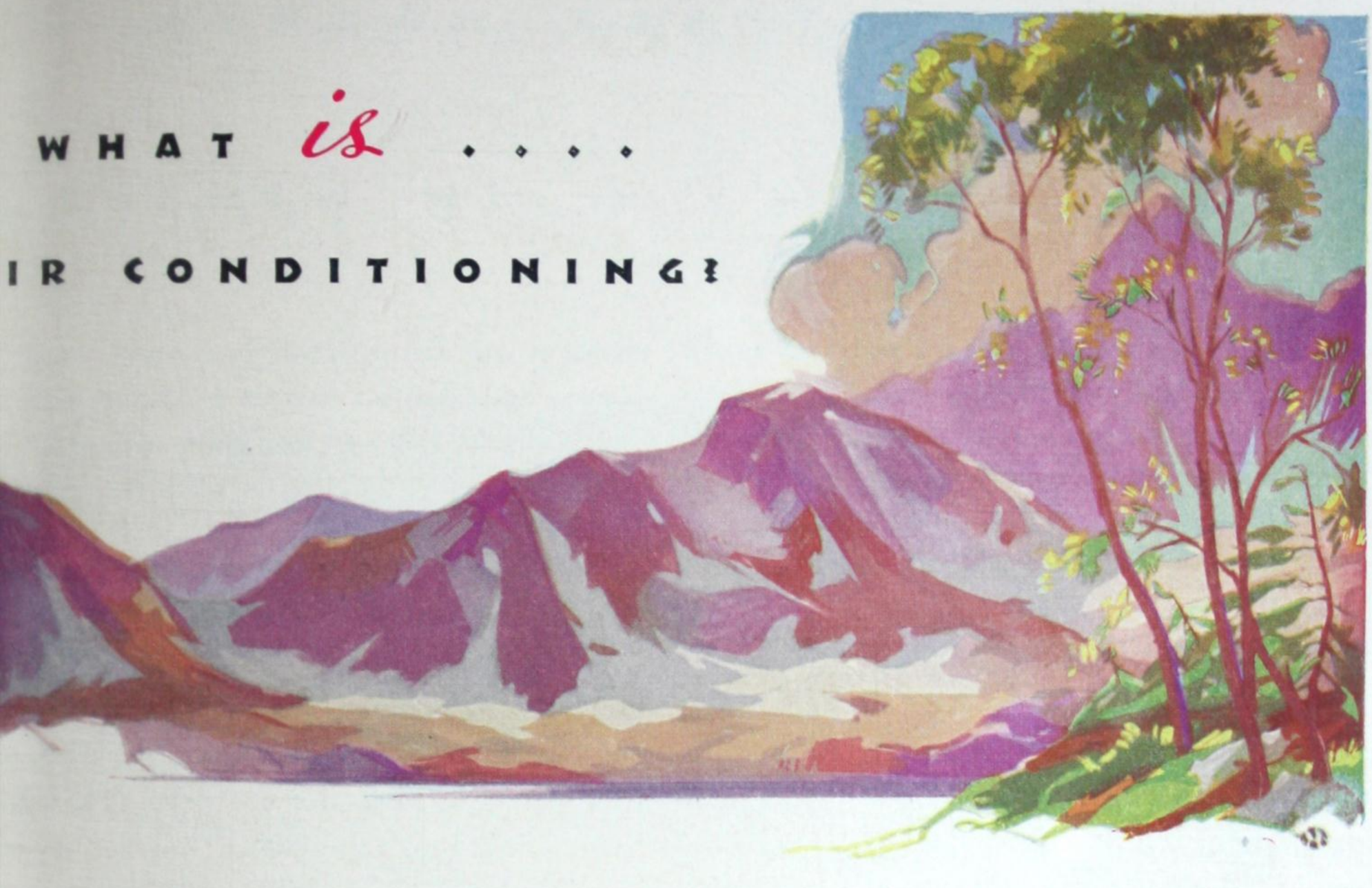
Why damage? Because dry, heated air causes terioration of woodwork, furniture, furnishings destroys plants and flowers.

Why heavy expenses? Because ordinary he plants are not particularly efficient — they are w ful of valuable fuel; and because doctor, medi cleaning bills are invariably higher.

Is there a system that will prevent sickness and comfort? Eliminate dirt? Prevent damage? Re winter expenses? Yes. But it is not a heating sys it is an Air Conditioning System which heats th and in addition completely conditions the air, as plained in the following pages.

WHAT *is* . . . .

IR CONDITIONING?



Conditioning is the science of duplicating in the ne a healthful, wholesome atmosphere. It recogs that dry heat, stagnant and polluted air, in ter — and sweltering weather in summer — is not a substitute for an ideal atmosphere. This modern tem completely conditions the air by:

1. Warming it to the proper temperature in winter;
2. Humidifying it to the proper degree in winter;
3. Filtering out dirt, dust, bacteria and foreign matter, the year 'round;
4. Circulating the air, providing healthful ventilation the year 'round;
5. Cooling the air in summer;
6. Dehumidifying the air in summer.

nter Air Conditioning is vital to good health. mmer Air Conditioning, while required for a shorter iod in most sections, is highly desirable.

To obtain a climate as perfect as that which you can enjoy in an Air Conditioned home, you must journey to a very few select places which nature has seen fit to favor particularly, and at which congregate those who can afford to leave behind the discomforts of disagreeable climatic conditions.

In only one respect is there any similarity between heating systems and Air Conditioning. Both supply heating. It is beyond the ability of the heating system to do anything to make the air, to which you owe your continued existence, moist, pure, clean and stimulating during the winter season.

Nothing in life is as important as the air that surrounds us. 60% of our energy comes from the air, 40% from food and drink. The average person inhales 35 pounds of air each day, or about 5 times the weight of food and water consumed.

COMFORTABLE WARMTH IN *Abundance* IN WINTER

THE first requirement for a perfect climate is delightful warmth — warmth that soothes and caresses you. And this is the kind of warmth that you can expect with the Sunbeam Air Conditioning System. It circulates the air so gently through the registers into each and every room that you are unaware of its entrance. But you are conscious of one thing — that you have never spent a winter so comfortably.

Part of this comfortable feeling is due to the purity of the air and its refreshing moistness. Part is due to uniform distribution of the warmth. Much of the comfortable feeling, however, is due to the lower temperature you can maintain in the air conditio home. You need not maintain a high temperature which you have been accustomed, and which ha weakening and irritating effect on the human syst

To the thrifty, the comfortable heating of the Sunbe Air Conditioning System has a special appeal. burn less fuel when you can maintain a lower te perature. A Sunbeam Air Conditioning System not a luxury. On the contrary, it is difficult to na anything that is more of a necessity, especially i home with babies, little children, or where any me ber of the family is not in the best of health.



THE CONDITIONED AIR IS POSITIVELY *Forced* TO EVERY ROOM!





Above is the electrically driven blower which delivers the conditioned air, under pressure, instantly and uniformly to every room in the house.

If you have had experience with any room that "just could not be heated on cold days or when a strong wind was blowing," you will certainly enjoy the Sunbeam Air Conditioning System. If some of the bedrooms are chilly — if halls are drafty — if half of the living room is warm and the other half cool — if the bathrooms are not the warmest rooms in the house, it will be difficult for you to realize the transformation that the Sunbeam will make. The electric blower positively forces the conditioned air to every corner of every room without fail, in spite of zero weather and penetrating winds.

Localized Temperature Control— Where it is desirable, temperature may be automatically regulated from two, three or more different sections in the Sunbeam Air Conditioned residence, by placing thermostats in rooms located in each section of the house. Thus, if one room, a solarium for example, or one wing of a large, rambling house cools more quickly because of greater exposure, or high wind velocities, Sunbeam Localized Temperature Control permits the delivery of conditioned air to maintain the proper temperature in this room or section, without overheating the balance of the house and wasting fuel.

YOU BREATHE *Moist* HUMIDIFIED AI



Humidity is regulated automatically by a room control instrument. Water sprays are so located that the moisture is equally distributed and completely absorbed by the air. This humidifier has the capacity to maintain the correct relative humidity during the heating season in any climate.

During your stay at the seashore, in the mountains, in the pine woods, your greatest enjoyment comes from breathing deep drafts of the fresh, moist, fragrant air. How good it feels. What a pleasant sensation as it fills your lungs. Makes you sleep more soundly. Gives you a better appetite. Soothes tense nerves. Restores your energy.

Did the air in your home on any winter day ever give you the same sensation? The reason it did not, is that the air in your home probably has a lower relative humidity, than the air in Death Valley.

Cold air can hold practically no moisture. Warm air can hold — and should have — considerable moisture. Nature increases the moisture content of the air in the summer months. B when air is heated artificially, mo ture must be added.

The correct relative humidity (saturated with moisture has a relati humidity of 100%) has been found be between 40% and 55%. The relative humidity the average home in weather 20° above zero is b tween 10% and 25%. This thirsty air extracts moistu from our bodies, dries out the mucous membranes the nose and throat, and makes respiratory diseas so prevalent. Each winter day, depending on the si of your home, 5 to 25 gallons of water should b added to the air. Moist air preserves furniture, woo work, paintings, musical instruments, antiques, objec of art and plants, as well as your health.

OU BREATHE *clean filtered purified* AIR

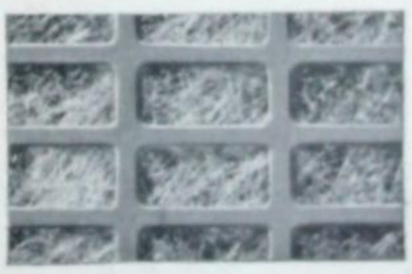
YOU know that there is a large amount of dirt and soot in the air because you see it, because it necessitates extra work. You are continually dusting. Measurements have shown that one to tons of soot are deposited daily in an average city every square mile of area. Every housewife knows external effect of dust-laden air.

internal effects are more serious. You breathe, each , more than 400 cubic feet of air. Estimate the amount polluted foreign matter suspended in the air, which gained entrance to your gs. This foreign matter in- les bacteria and germs, which ch themselves to dust parti- . Medical authorities realize dangerous this has become. Bundesen, Health Com- sioner of Chicago, states 60% more people are ng from respiratory ailments sed by contaminated air, than all other diseases.

ats and foods are inspected; milk is pasteurized; er is filtered for your protection. Now the Sunbeam Conditioning Unit purifies the air you breathe. When air passes through the system, every few minutes, rs remove at least 90% of suspended matter. The ditioned air is free from dust, soot and germ colonies. d if you suffer from hay fever or asthma, you will be ased to know that Sunbeam Conditioned Air is ually devoid of pollen and other protein impurities ch cause and aggravate these maladies.



Notice the difference between an air conditioned room and an ordinary room. A shaft of sunlight will show you thousands of particles suspended in air that is not conditioned.





Opposite is a section of a clean filter. Alongside is the same filter after a few months in service. Dirt, germs and pollen in the air that enters into your home are eliminated immediately before the air is distributed.



AN AIR CONDITIONED HOME IS A *Ventilated Home*

DO you become drowsy and tired in the evening and lose your energy after sitting around for a short period? Lack of ventilation is one of the causes for this feeling. In spring and summer when windows and doors are open and the air circulates freely through the house, you don't have that oppressed feeling every evening.

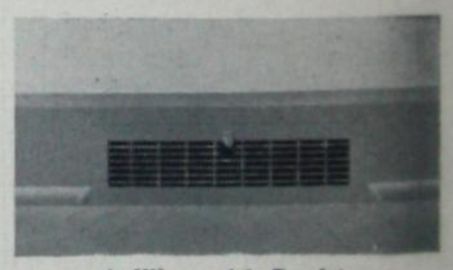
In building or buying a home most people plan or seek one with "through ventilation" when the windows are open. This is fine. But during the heating season with windows tightly closed to keep out the cold, there is no ventilation. And it is during the winter months that you have your greatest need for it!

Ventilation is demanded by law, in schools, theatres, and public buildings. You have often seen the grilles and registers through which the air is changed. Sunbeam has the same equipment (smaller in size) providing ventilation, that you find in large buildir It gives you a change of air every 10 to 15 minut

The outside air which filters into the home arou windows and doors is immediately drawn into system through recirculating grilles. As it is con tioned, it circulates through the warm air or dischar registers. In the average house a sufficient amount outside air enters by infiltration each hour to displa and expel all the "inside" air. This outside air is or valuable if it is circulated throughout the hou

Any air containing odors, as is often the case kitchens or other rooms, can be conveniently vent or discharged out-of-doors.



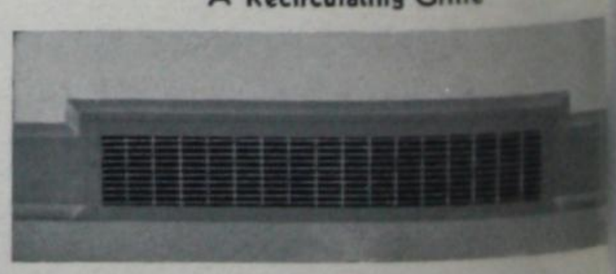


A Warm Air Register

Air circulating through these registers duplicates the ventilation obtained in large public buildings.

Registers and grilles can be installed in baseboards, or walls, and can be finished to harmonize. They do not deprive you of any floor space, nor do they interfere with the most artistic arrangement of your furniture.

A Recirculating Grille



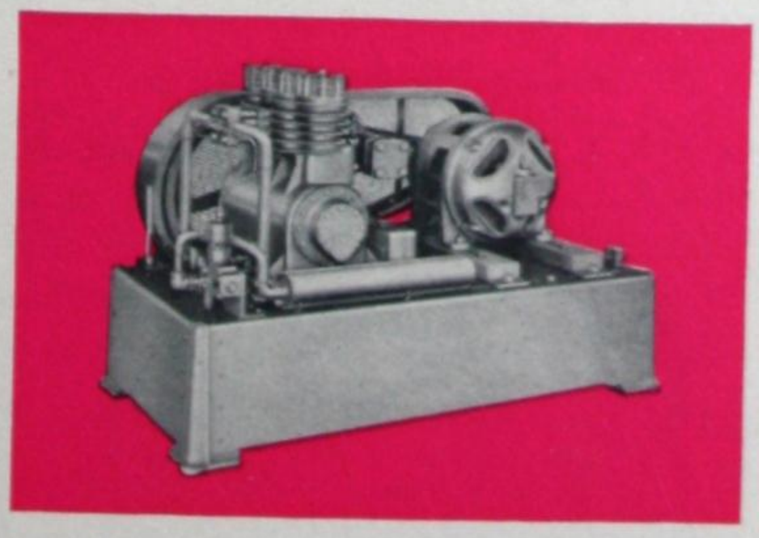


YOU ENJOY A *Cool Home* ON HOT SUMMER DAYS AND SWELTERING NIGHTS

WHAT would you give for relief from the heat, on a blistering summer day or a stifling summer night? When you are drenched with perspiration? When you cannot sleep? Jumping into the car and joining a motor-procession on hot pavements, reeking with gasoline fumes and carbon monoxide exhaust gases, is relief. Plunging into ocean, lake or river cools you temporarily, but increases discomfort afterwards.

THE Sunbeam Air Conditioning System offers you perfect relief! Immediate relief! Permanent relief! A refrigerating machine of the type shown opposite can be connected to the Sunbeam. In the summer, the temperature of the air is lowered as it passes over cooling coils. The cooling coils which are located in a special compartment, are connected to the refrigerating unit. As the temperature of the air drops, moisture is precipitated from it, thereby reducing the high relative humidity which generally obtains in hot weather.

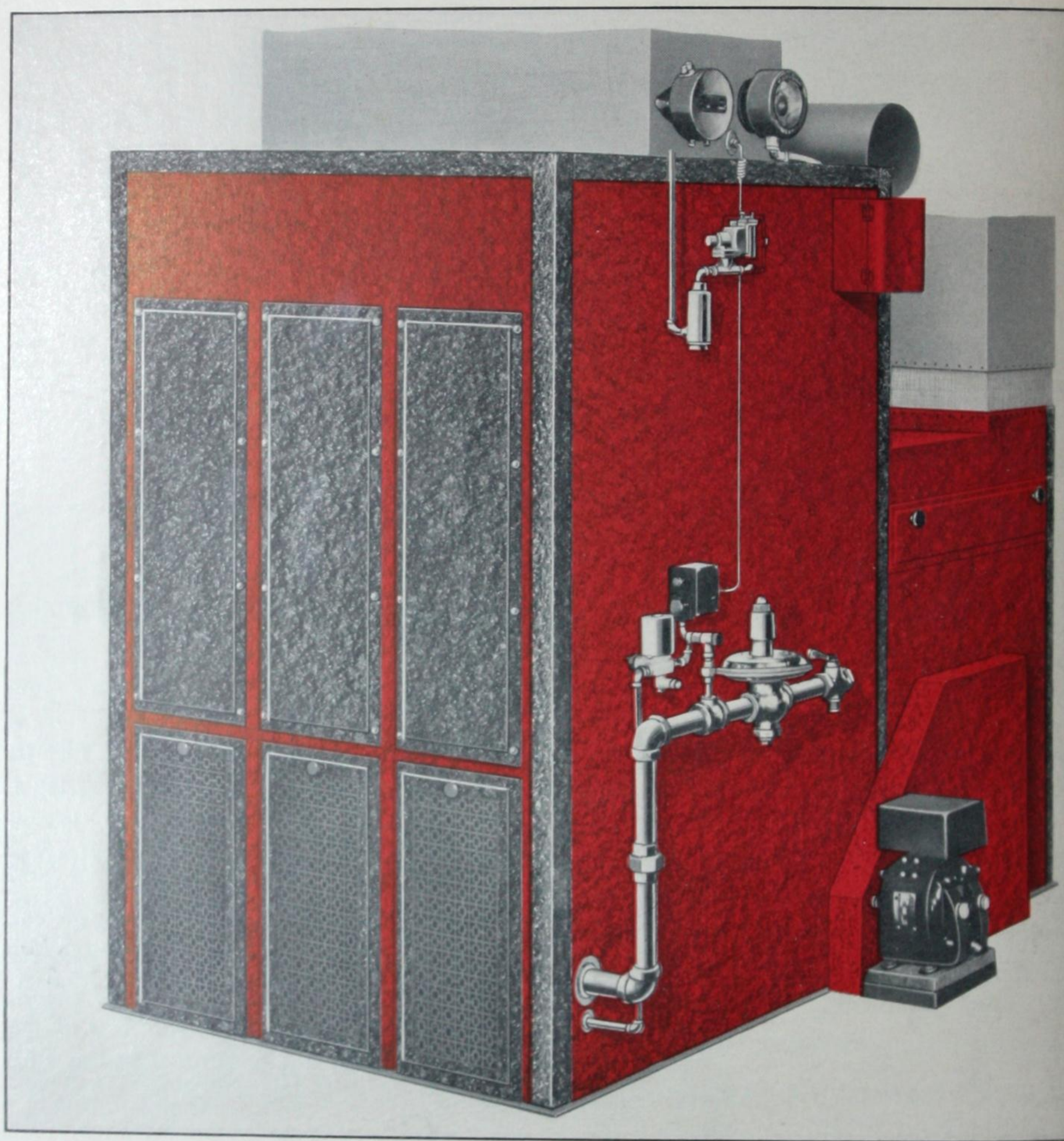
The thermostat will regulate the cooling operation of the system and will maintain the degree of temperature that you find most agreeable. The cooling plant is simple in construction and operation. It is no more complicated than the equipment that you now have with your household electric refrigerator.



The Refrigerating Unit for cooling and dehumidifying the air in hot weather

You can install the refrigerating unit when you purchase your Sunbeam Air Conditioning System —or later. It is immaterial when you do it. The same ducts and registers which carry the warm, filtered, conditioned air in winter, are used for the cool, filtered, conditioned air in summer.

THE SUNBEAM GAS FIRED *Air Conditioning* UN



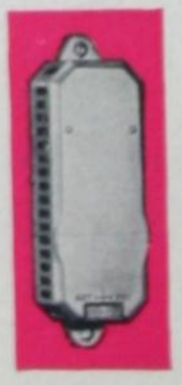
(Designed for Gas Exclusively)

In the Sunbeam, handsome appearance is combined with ingenious design. The exterior is pleasingly finished in red and black crystalline baked enamel which retains its attractive appearance indefinitely.



THERMOSTAT

Room temperatures are automatically regulated by one, or more, thermostats. In winter, the thermostat sets the unit in operation when temperature drops below a predetermined temperature, 70° for example. Summer temperatures can also be regulated by thermostat.



HUMIDISTAT

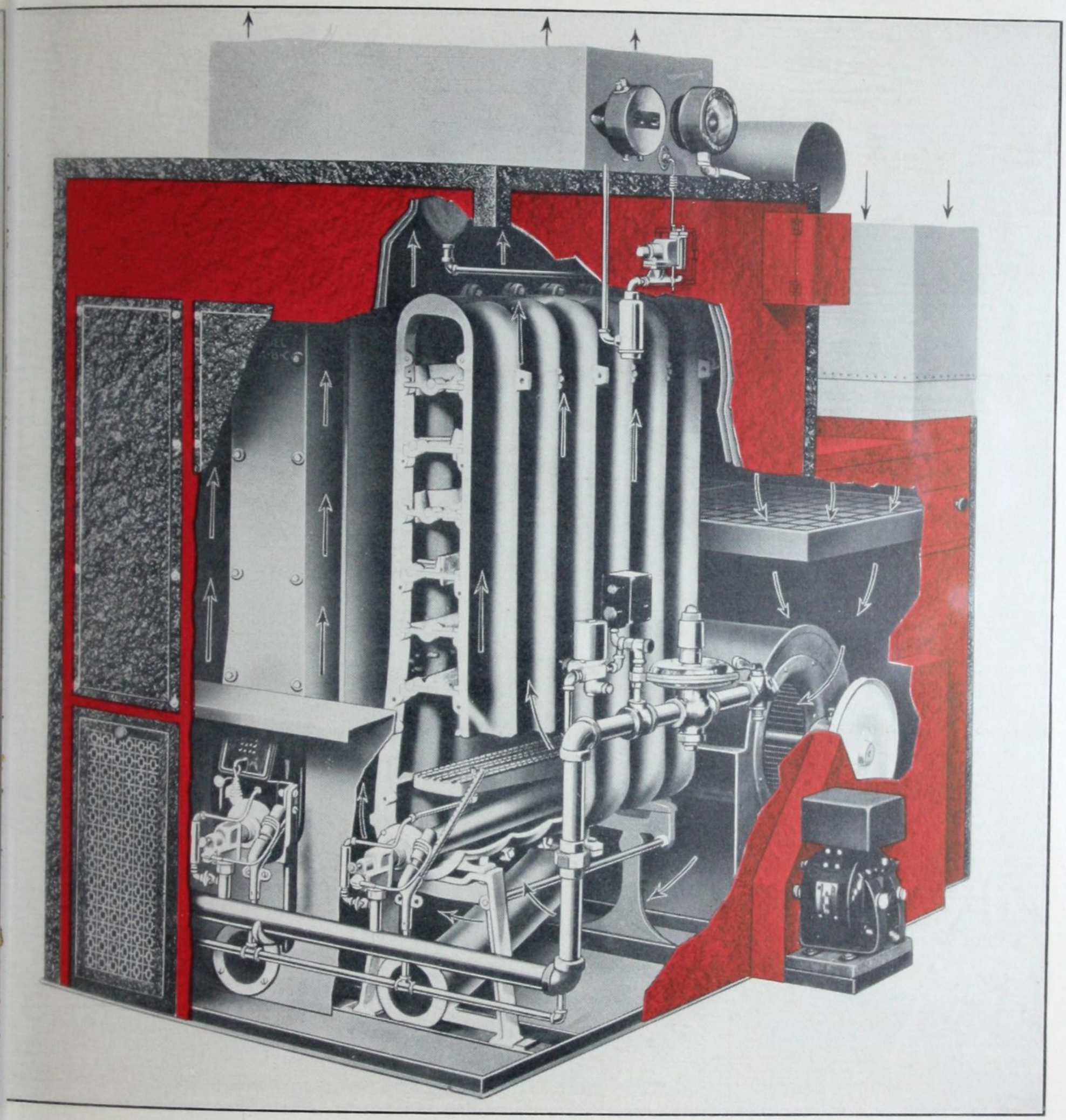
This instrument is located in one of the living rooms and controls the spray humidifier. The Humidistat automatically regulates relative humidity in the home just as the thermostat automatically regulates temperature.



BLOWER SWITCH A LIMIT CONTROL

This instrument prevents blo from operating until after ditioned air has been heate blower switch setting. No air can be circulated during h ing season. It also acts as a s device and shuts off heat su if temperature rises above t control setting.

HOW THE *Air Conditioning* UNIT FUNCTIONS



This cutaway illustration shows the Sunbeam Gas Fired Air Conditioning Unit

ir is drawn in the Sunbeam through the Return uct. The filters through which it passes remove the oot and germs before the electric blower forces the heating chamber, where it is warmed. The ow cleansed and heated, obtains the proper nt of moisture from the Humidifier, located e top of heating element, before it passes into the distributing ducts which lead to each room. When refrigerating equipment is used with the system, the cooling coils can be placed in a special compartment behind the blower and filter compartment. The compressor can be placed anywhere in the heater room or basement. In summer, the heating elements and humidifier are not in operation.

THE SUNBEAM AIR CONDITIONING UN

Series no. 60



This Unit, which has been specially designed for the efficient and economical burning of oil and th solid fuels, also makes an attractive addition to any basement. The illustration shows the oil burning mode



THERMOSTAT

Room temperatures are autometic-elly regulated by one, or more, thermostats. In winter, the thermostat sets the unit in operation when temperature drops below a predetermined temperature, 70° for example. Summer temperatures can also be regulated by thermostat.



HUMIDISTAT

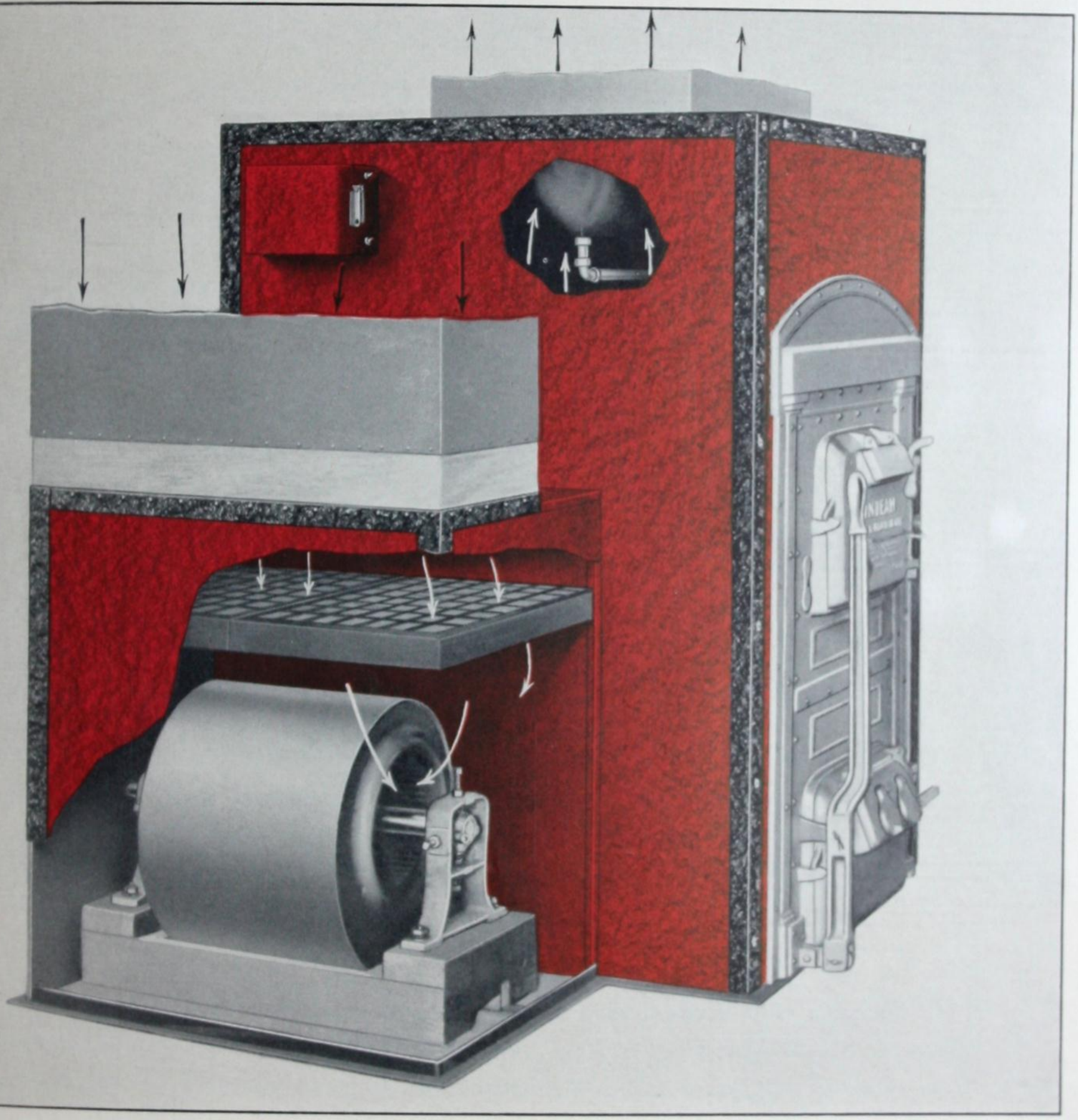
This instrument is located in one of the living rooms and contro's the spray humidifier. The Humidistat autometically regulates relative humidity in the home just as the thermostat autometically regulates temperature.



BLOWER SWITCH A LIMIT CONTROL

This instrument prevents bl from operating until ditioned air has been heat blower switch setting. No air can be circulated during ing season. It also acts as a device and shuts off heat if temperature rises above control setting

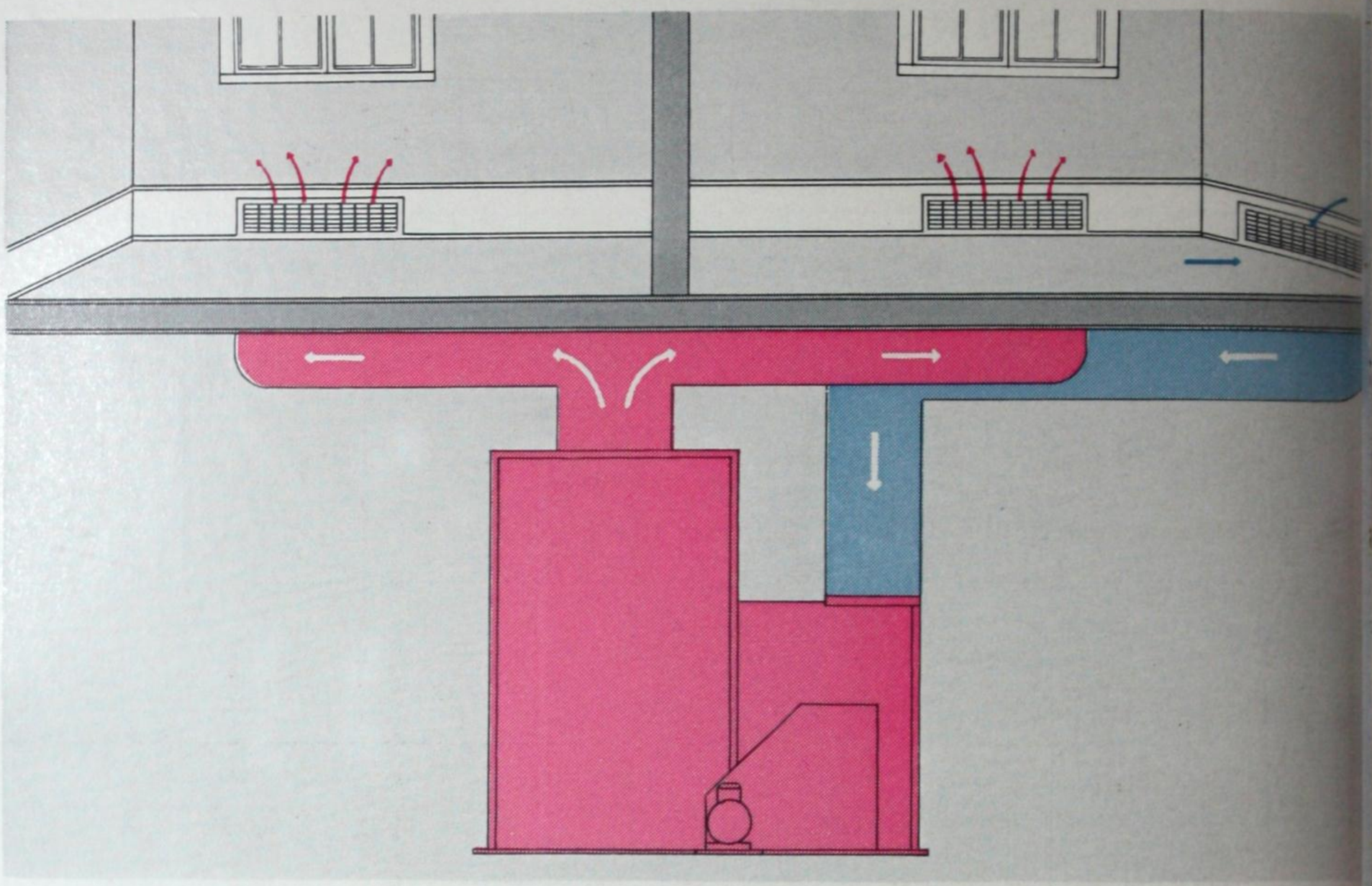
HOW THE SUNBEAM *Completely Conditions* THE AIR



This illustration shows the Coal Burning Model

Unit operates and functions identically with the Sunbeam types. Air is drawn in through the culating duct, is cleaned by the filters, forced into ng compartment, moistened by the humidifier finally passes through the conditioned air ducts, h are connected to registers in the various rooms.

The Series No. 60 Sunbeam has many features that commend it particularly for oil burning. Many of the finest homes in all parts of the country are enjoying automatic air conditioning with this system. Any standard make of residential oil burner may be used with this Sunbeam Air Conditioning Unit.



HOW THE CONDITIONED AIR IS *Circulated*

THROUGH YOUR HOME

THE Sunbeam Air Conditioning System places nothing complicated in your basement; nothing difficult to understand; nothing that requires special knowledge. There is only the unit itself and the ducts or pipes shown in the illustration on this page. There is nothing to get out of order or cause trouble.

The air is delivered under pressure which makes it possible to use small ducts, pipes and registers. In replacing a furnace system this higher velocity en the Sunbeam Heating Contractor to utilize the pr runs which would have insufficient capacity wi the forcing action of the blower.

The Sunbeam can be placed anywhere in the ment; in the center, at one end, or in a corner o the way. The ducts can be, and generally are, cealed by a ceiling in the basement. There nee no visible evidence of the Air Conditioning Sy in the basement, outside of the heater room.



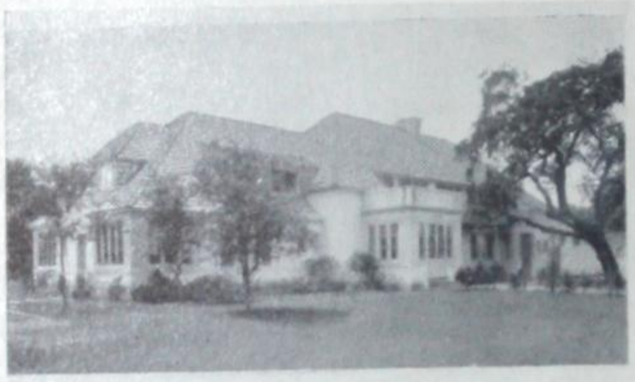
The Basement

E MOST POPULAR ROOM IN THE HOME

ossibilities of the basement are unlimited with onditioning. The Unit is out of the way in a that can be utilized in no other manner. The ompact air ducts are placed above the ceiling sight. And this valuable space becomes what- ou want it to be. A play room for the youngsters. A gymnasium. Dance hall. Card room. Billiard room. Or just a general assembly room and recreation center. With the Sunbeam, this recreation center can be kept as spotless and as sanitary as any other rooms. And it will be thoroughly ventilated and air conditioned like the rest of the house.

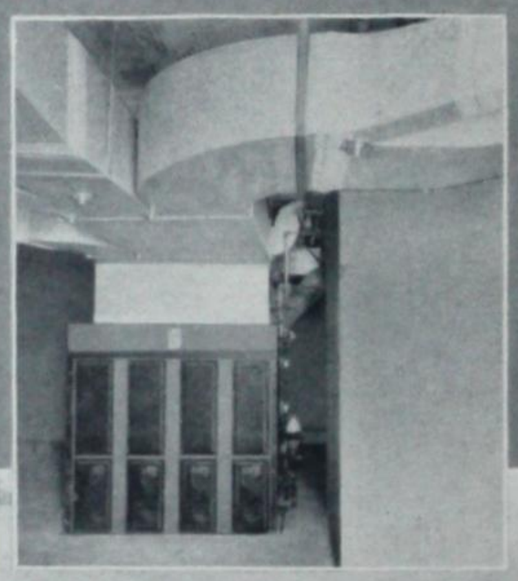
SOME HOMES EQUIPPED WITH

Sunbeam









The Sunbeam installation and the attractive recreation room in the basement of an air conditioned residence.









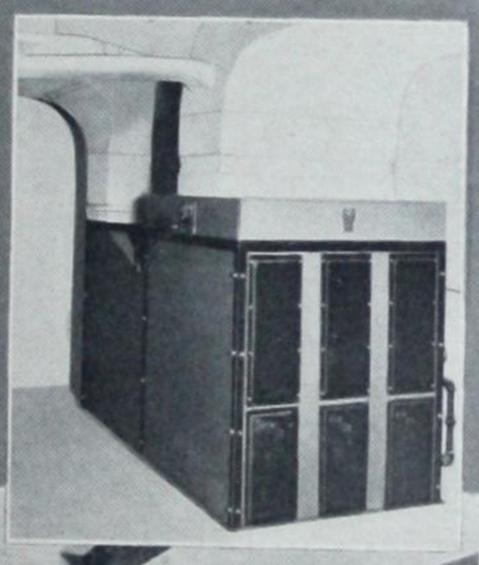


Air Conditioning Systems















The heater room and the recreation room of another Sunbeam equipped residence.







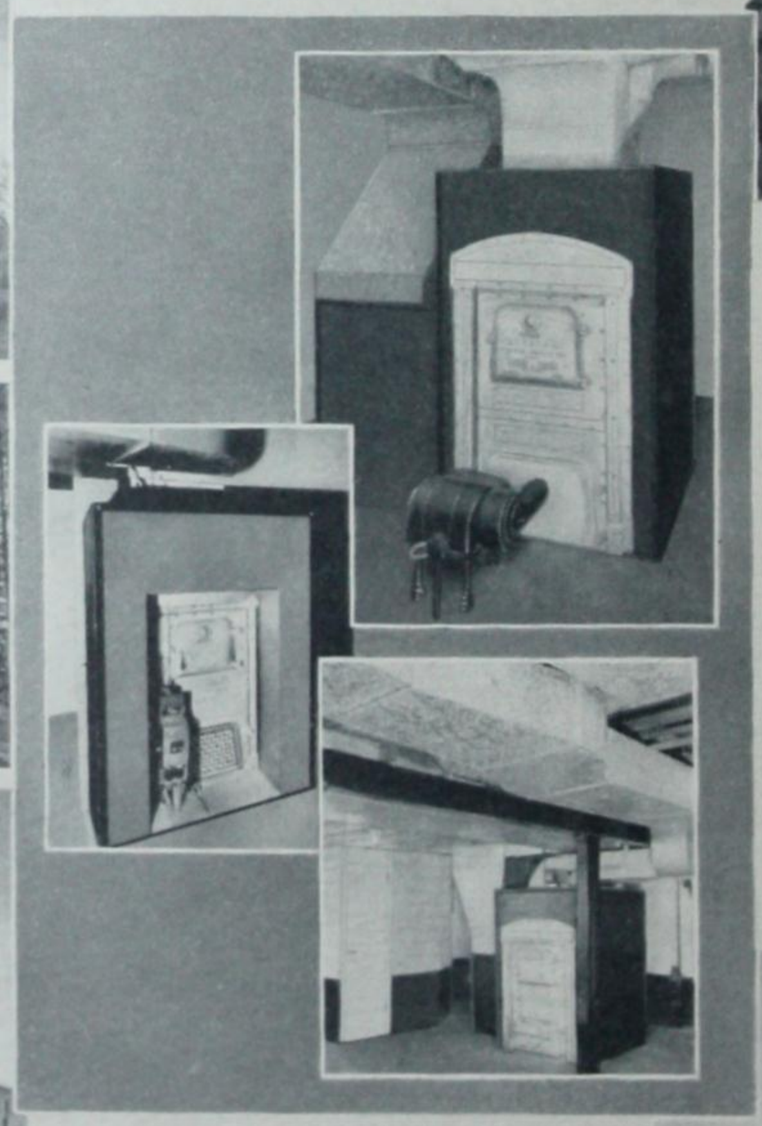
OTHER HOMES THAT ARE

Sunbeam Air Conditioned



















Photographs of additional installations of Sunbeam Air Conditioning Systems.

You CAN AFFORD THE

NBEAM AIR CONDITIONING SYSTEM

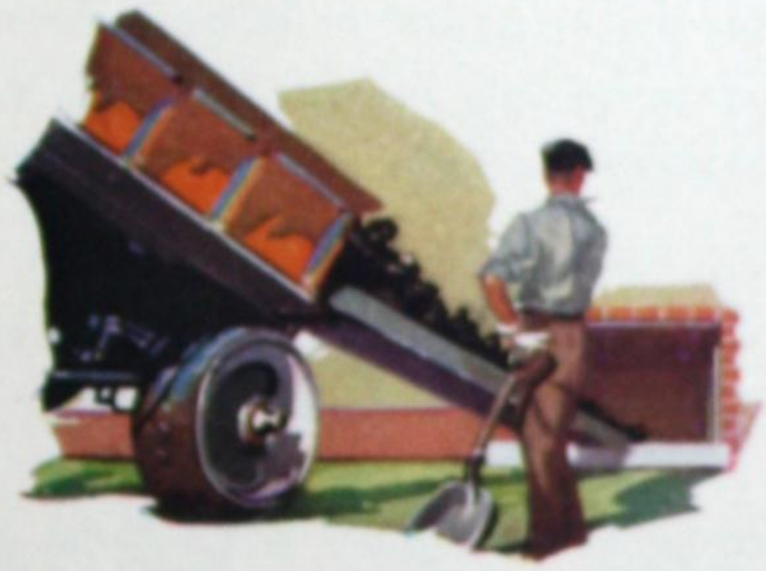


Nearly everyone, when they learn about Air Conditioning, remarks that it is a much needed development and must be costly. Since the Sunbeam has been introduced, residential Air Conditioning is no longer expensive. The resources, purchasing ability and manufacturing facilities of the world's largest makers of heating equipment, bring this equipment within the purchasing reach of virtually every home owner who appreciates the advantages of Custom Made Climate at home.



In many homes the initial cost of a new Sunbeam — without the cooling equipment — will be about the same or a few dollars higher than that of a good heating system, properly installed.





ain homes above average in size and quipped with furnaces, Air Condition- ay be lower in price. The Sunbeam g Contractor in your neighborhood or inity will gladly study your require- and submit plans and give you a e quotation.

re not being fair to yourself and your t of expenditures, if your comparison with the initial costs. For when you take into consideration the in fuel, doctor, medicine, cleaning and decorating bills — and ss of income when incapacitated by winter illness — each year very year that you enjoy Sunbeam Air Conditioning, you will er that it is the most economical innovation that has yet been ted to home owners anywhere.



THE ORGANIZATION BEHIND THE SUNBEAM AIR CONDITIONING UNIT

YOU can select this most modern of systems with a sense of deep security because of the reputation, experience and responsibility of the organization behind it, which has played a leading role in every new development in the science and progress of heating.

The heating contractor who sells and installs this equipment is a member of your community, an independent, local businessman. He is well qualified by training and experience to make an installation to your perfect satisfaction. He has at his disposal the services of a staff of heating and air conditioning engineers at the factory. These Engineers are ready at all times to advise and assist Sunbeam Contractors and are prepared, wherever advisable, to plan and design the installation of the Air Conditioning System.

All Sunbeam Systems are suitable for small schools, churches, stores, and other buildings whose requirements are within the capacities of this equipment.

THE FOX FURNACE COMPANY

ELYRIA, OHIO

A DIVISION OF

AMERICAN RADIATOR & STANDARD SANITARY CORPORATION

THE FOX FURNACE CO.
ELYRIA, OHIO

Gentlemen:

☐ Will you have one of your representatives tell us more about Sunbeam Air Conditioning?

☐ Will you have one of your representatives submit cost estimates and plans for Air Conditioning our new home, without obligation or cost to us?

Name _____

Address _____

City and State _____

FILL IN AND RETURN THIS POST CARD.
NO STAMP IS NEEDED.

[BLANK PAGE]

CCA API

SUNBEAM
AIR CONDITIONING UNIT

FIRST CLASS
PERMIT No. 46
Sec. 384½ P. L. & R.
ELYRIA, OHIO

BUSINESS REPLY CARD

No Postage Stamp necessary if mailed in the United States

2c --- POSTAGE WILL BE PAID BY

THE FOX FURNACE CO.

ELYRIA, OHIO

AND NOW

Beauty WITH...

PERFECTED

OIL HEATING

and

AIR CONDITIONING



The new Gar Wood Tempered
Furnace with air-conditioning ca
for greater comfort and econon
your home and beauty in your base

Gar Wood TEMPERED-AIRE

HEATS YOUR HOME *in* WI
COOLS IT IN SUMMER—N
YOUR HEATING PLANT U

the year round ★ ★ ★

COPYRIGHT, 1934, GAR WOOD INDUSTRIES, INC.

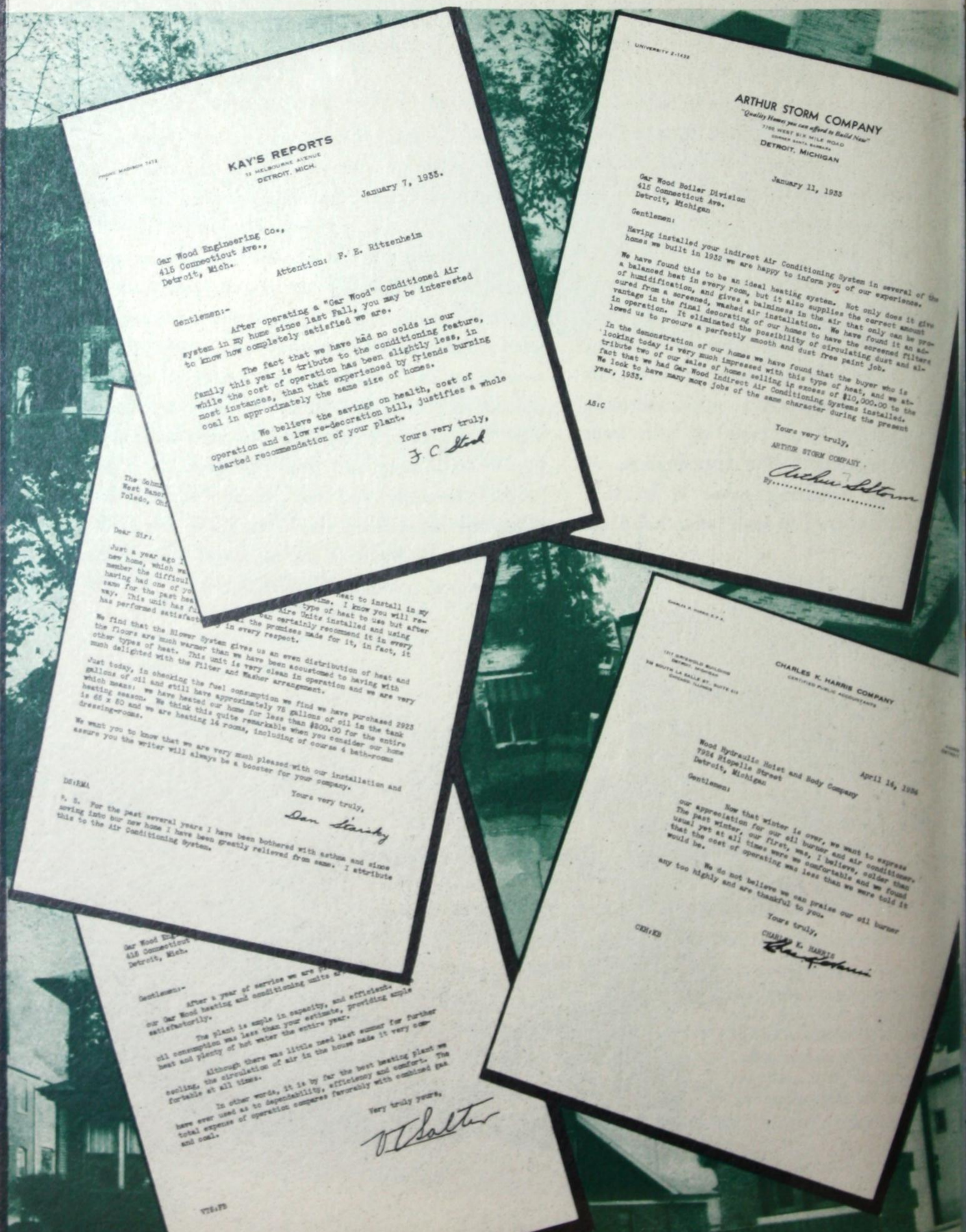


GAR WOOD *Restyles* AND MODERNIZES WARM AIR OIL *heating and* AIR CONDITIONING ★ ★ ★

★ Nearly everyone in America knows Gar Wood as the king of speedboat racers. He has won the Harmsworth Trophy nine times. His several world's records on the water are due quite as much to his genius in the laboratory as to his personal daring and driving skill. For Gar Wood has designed, engineered, and built all of his world-winning speedboats. In addition, he is known as an industrialist of front rank, having invented and manufactured the hydraulic hoist and dump truck body and developed several other products that are distributed all over the world. Let us see here what Gar Wood has done, in his crowning achievement, to revolutionize heating efficiency and personal comfort in thousands of American homes.

GAR WOOD OWNERS REGISTER THE SWEEPING APPROVAL *of the world's fin*

Oil heating equipment ★ ★ ★



KAY'S REPORTS
12 MELBOURNE AVENUE
DETROIT, MICH.

January 7, 1933.

Gar Wood Engineering Co.,
415 Connecticut Ave.,
Detroit, Mich.

Attention: F. E. Ritzenheim

Gentlemen:-

After operating a "Gar Wood" Conditioned Air system in my home since last Fall, you may be interested to know how completely satisfied we are.

The fact that we have had no colds in our family this year is tribute to the conditioning feature, while the cost of operation has been slightly less, in most instances, than that experienced by friends burning coal in approximately the same size of homes.

We believe the savings on health, cost of operation and a low re-decoration bill, justifies a whole hearted recommendation of your plant.

Yours very truly,

F. C. Stod

ARTHUR STORM COMPANY
"Quality Homes you can afford to Build Now"
7700 WEST SIX MILE ROAD
CORNER SANTA BARBARA
DETROIT, MICHIGAN

January 11, 1933

Gar Wood Boiler Division
415 Connecticut Ave.
Detroit, Michigan

Gentlemen:

Having installed your indirect Air Conditioning System in several of the homes we built in 1932 we are happy to inform you of our experience.

We have found this to be an ideal heating system. Not only does it give a balanced heat in every room, but it also supplies the correct amount of humidification, and gives a balminess in the air that only can be procured from a screened, washed air installation. We have found it an advantage in the final decorating of our homes to have the screened filters in operation. It eliminated the possibility of circulating dust and allowed us to procure a perfectly smooth and dust free paint job.

In the demonstration of our homes we have found that the buyer who is looking today is very much impressed with this type of heat, and we attribute two of our sales of homes selling in excess of $10,000.00 to the fact that we had Gar Wood Indirect Air Conditioning Systems installed. We look to have many more jobs of the same character during the present year, 1933.

ASiC

Yours very truly,

ARTHUR STORM COMPANY

By.....

The Cohn
West Bann
Toledo, Ohi

Dear Sir:

Just a year ago
new home, which w
member the difficul
having had one of yo
same for the past hea
way. This unit has fu
has performed satisfact

heat to install in my
time. I know you will re-
type of heat to use but after
Kire Units installed and using
can certainly recommend it in every
the promises made for it, in fact, it
in every respect.

We find that the Blower System gives us an even distribution of heat and the floors are much warmer than we have been accustomed to having with other types of heat. This unit is very clean in operation and we are very much delighted with the Filter and Washer arrangement.

Just today, in checking the fuel consumption we find we have purchased 2923 gallons of oil and still have approximately 75 gallons of oil in the tank which means: we have heated our home for less than $300.00 for the entire heating season. We think this quite remarkable when you consider our home is 46 x 50 and we are heating 14 rooms, including of course 4 bath-rooms dressing-rooms.

We want you to know that we are very much pleased with our installation and assure you the writer will always be a booster for your company.

Yours very truly,

Dan Stanky

DS:RMA

P. S. For the past several years I have been bothered with asthma and since moving into our new home I have been greatly relieved from same. I attribute this to the Air Conditioning System.

CHARLES K. HARRIS COMPANY
CERTIFIED PUBLIC ACCOUNTANTS

Wood Hydraulic Hoist and Body Company
7924 Riopelle Street
Detroit, Michigan

April 14, 1936

Gentlemen:

Now that winter is over, we want to express our appreciation for our oil burner and air conditioner. The past winter, our first, was, I believe, colder than usual yet at all times were we comfortable and we found that the cost of operating was less than we were told it would be.

We do not believe we can praise our oil burner any too highly and are thankful to you.

Yours truly,

CKH:KD

Gar Wood Eng
416 Connecticut
Detroit, Mich.

Gentlemen:-

After a year of service we are p
our Gar Wood heating and conditioning units a
satisfactorily.

The plant is ample in capacity, and efficient.
oil consumption was less than your estimate, providing ample
heat and plenty of hot water the entire year.

Although there was little need last summer for further cooling, the circulation of air in the house made it very comfortable at all times.

In other words, it is by far the best heating plant we have ever used as to dependability, efficiency and comfort. The total expense of operation compares favorably with combined gas and coal.

Very truly yours,

VTS:FB

[MENSIONS, WEIGHTS and RATINGS

THE CONVENIENT REFERENCE OF ARCHITECTS AND CONTRACTORS

★

he Air-conditioning Division
n important part of Gar Wood
ıstries, Inc., a huge organiza-
of 22 years' manufacturing ex-
ence, with plants located in
ous cities of the United States
Europe.

ar Wood, the president, was
onsible for the creation of the
integral boiler burner unit,
later introduced another new
dard of efficiency in heat trans-
vith the Gar Wood Tempered-
automatic furnace and air-
ditioning system.

ar Wood oil-burning equip-
t is now in its seventh year of
essful domestic operation. The
re product, with the exception
ıotors and controls, is made in
wn plants.

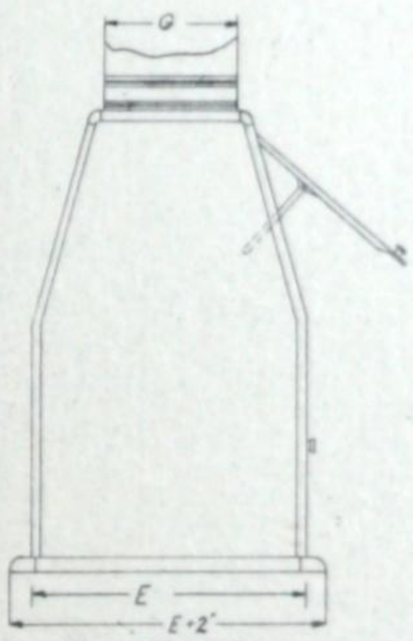
ıtisfactory permanent service
ar Wood heating equipment is
red by the financial, engineer-
and manufacturing resources
ıe company.

Vithout any obligation or cost
your part, we shall be glad to
e a survey of your present
ing requirements. It will amaze
to learn what a new measure of
ıomy and efficiency you may
ain from Gar Wood's revolu-
ary inventions in home heating
air conditioning.

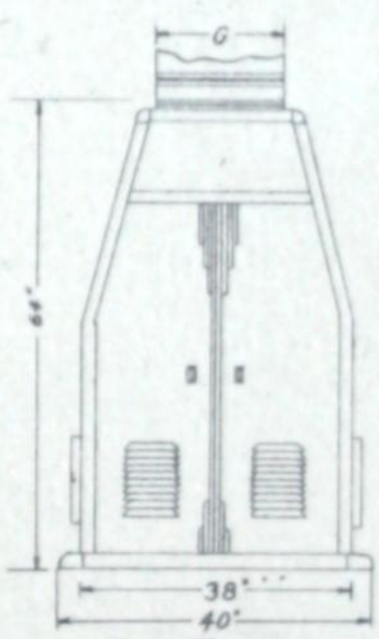
Tempered-Aire furnace, burner, filter, blower unit

Capacities and dimensions	*103*	*104*	*105*
B.T.U. 1 hr. at bonnet	165,000	225,000	300,000
B.T.U. 1 hr. at grilles	135,000	185,000	245,000
Air delivery C. F. M.	1375-2150	1875-2950	2500-3925
Air temperature at bonnet	175°-135°	175°-135°	175°-135°
Oil rate, gallons 1 hr.	1.65	2.25	3.00
Heating surface, fire box	33	44	55
Heating surface, economizer	85	117	150
Heating surface, total	118	161	205
Crated weight	1950	2180	2795
Dimension A	115 11/16	138 1/4	154 1/4
Dimension B	32 3/8	36 3/8	45 3/8
Dimension C	34 1/4	38 1/4	47 1/2
Dimension D	63	75	87
Dimension E	38	38	38
Dimension F	42 5/16	54 5/16	66 5/16
Dimension G	18 1/8	18 1/8	18 1/8
Dimension H	10	10	10
Dimension L	133 5/16	167 3/4	171 3/4
Dimension M	18 5/16	25	19 3/4

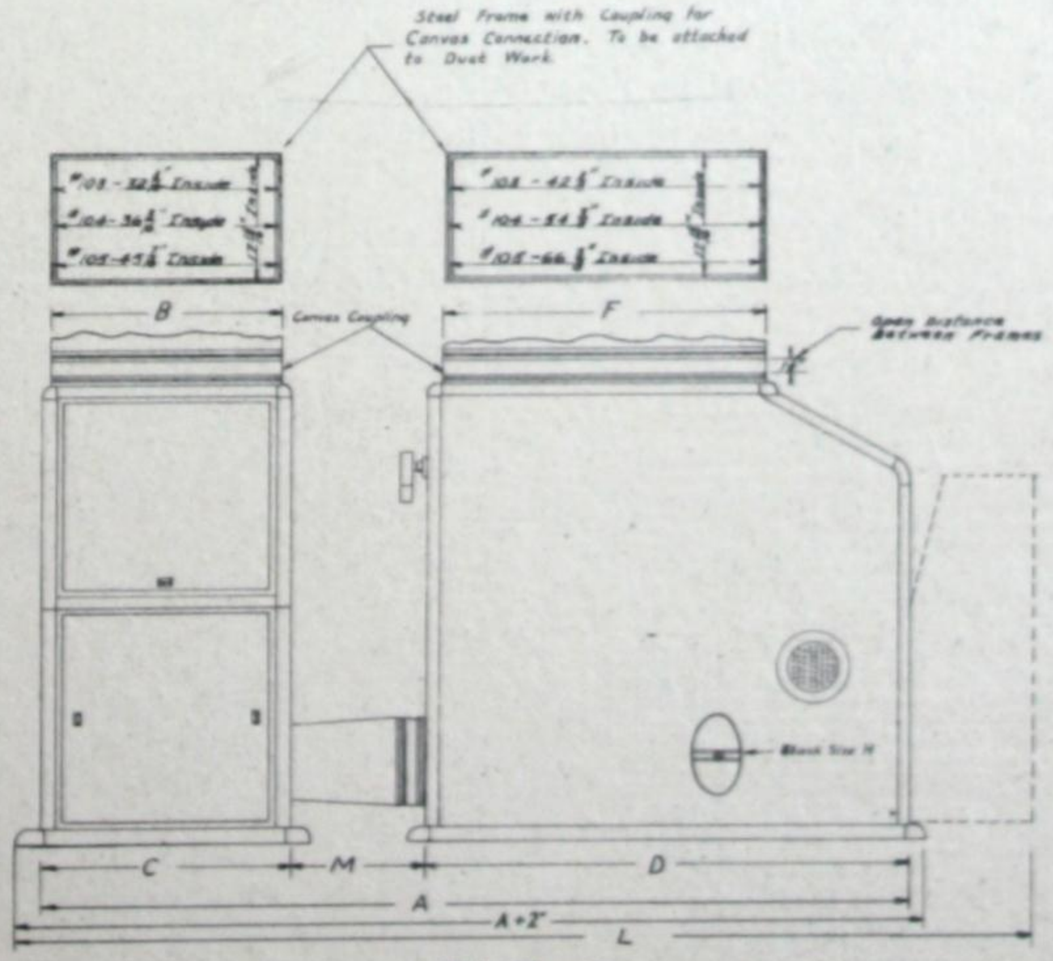
TEMPERED-AIRE AUTOMATIC FURNACE



Rear Elevation



Front Elevation



Side Elevation

FORM NO. B 351
LITHOGRAPHED IN U.S.A.
BY EVANS-WINTER-HEBB, DETROIT

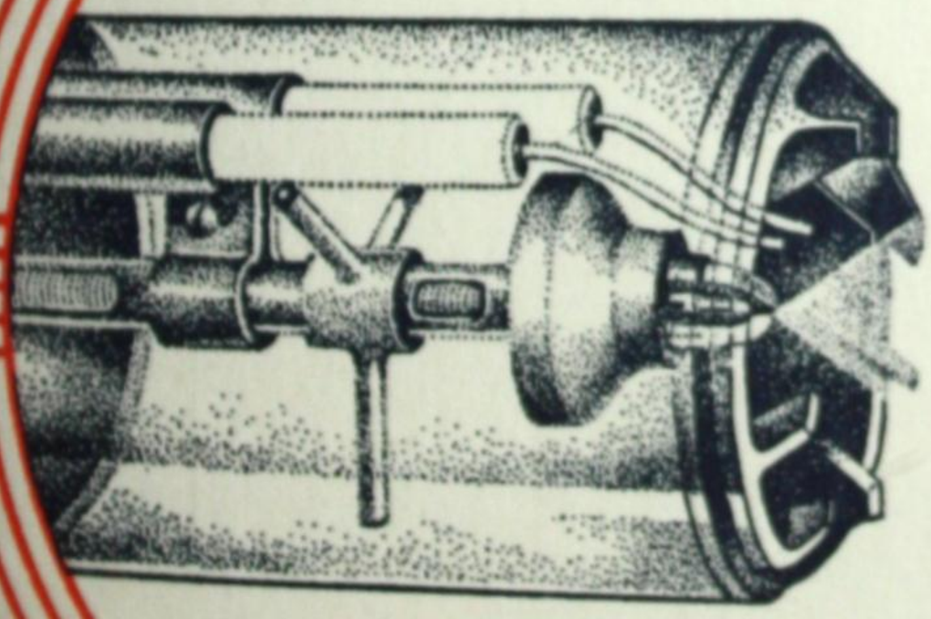
Gar Wood
TEMPERED-AIRE

GAR WOOD INDUSTRIES, INC.

DETROIT, MICHIGAN

Automatic
OIL HEAT
(BOILER BURNER UNITS)
AIR CONDITIONING

64



Gar-Wood

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API INTERNATIONAL

CCA

OIL HEAT UNITS
AND
AIR CONDITIONING EQUIPMENT

GAR WOOD INDUSTRIES, INC.
Air Conditioning Division
DETROIT, MICHIGAN

Preprinted from

Sweet's Catalog File
(Architectural)
1935 Edition

No. B353—10M July 15, 1934 Printed in U. S. A.

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GAR WOOD INDUSTRIES, INC.

Air Conditioning Division

OIL HEAT UNITS
AND
AIR CONDITIONING EQUIPMENT

o

GENERAL OFFICES
7924 Riopelle Street, DETROIT, MICH.

o

THE COMPANY—ITS FACILITIES

● **EXPERIENCE**—The Air Conditioning Division of Gar Wood Industries is part of the huge industrial organization known as Gar Wood Industries, Inc., with factories in Detroit, Marysville, and San Francisco, Canada, France, England, and Germany and complete assembly and service plants located in Minneapolis, Chicago, Baltimore, Los Angeles, Long Island City, Philadelphia, Portland, Seattle, and Washington, D. C.

All Wood Industries are dominated by their President, Gar Wood, nationally known inventor, industrialist, and sportsman. Outstanding as are his achievements in motor boat racing, his success in the field of sport is primarily attributable to his advanced engineering skill which has enabled him to build the long line of Miss Americas, the hydroplanes that have ruled the world for speed since 1921.



GAR WOOD, PRESIDENT

When, several years ago, Gar Wood sought in the open market for domestic oil burning equipment for his own personal use, he found nothing entirely satisfactory to his discriminating mind. This led to intensive study and research in the field of oil heat and combustion, resulting in the design and development of equipment quite revolutionary in principle. Gar Wood was personally the dominant factor in the creation of the **first** matched (boiler-burner) unit, in the oil heating field, introducing a new measure of economy and comfort due to its increased efficiency in combustion and heat transfer.

Gar Wood Oil Burning Equipment has been in successful field operation for a period of seven years, demonstrating through several thousands of installations outstanding ciency and trouble-proof practicability.

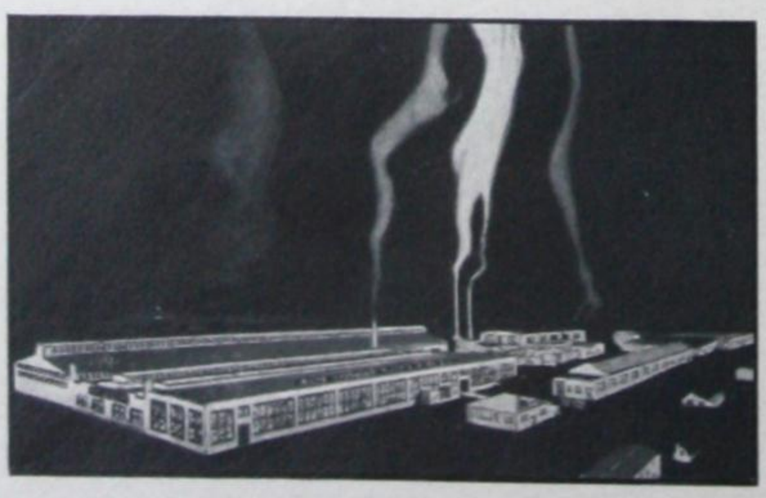
● **MANUFACTURING FACILITIES**—Gar Oil Burning and Air Conditioning Equipmen cept for certain accessories such as motor automatic electrical control units, is entirely in its own modernly equipped and rigidly s vised plant at Detroit, Mich.

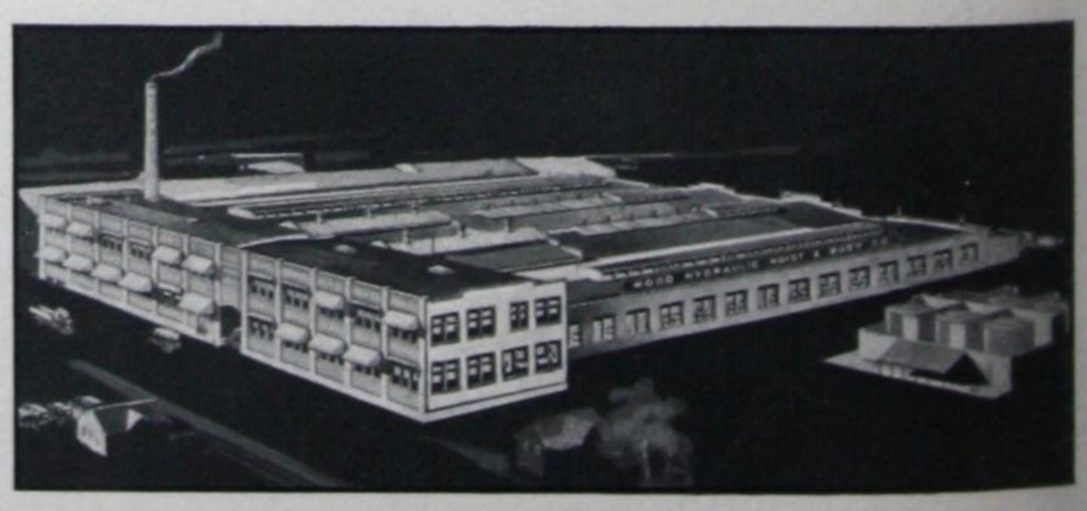
● **DISTRIBUTION**—Sales and installation handled nationally in all principal cities th competent licensed distributors.

● **RESPONSIBILITY**—Gar Wood Product backed by a sound financial organization four million dollars in assets and a strong reserve—a company which has not only weat the storms of the recent years of depression but has imp its commercial position during that period. It is given highest possible rating of AA1 by Dun & Bradstreet.

● **ENGINEERING SERVICES**—Gar Wood Distributors a experienced oil heating and air conditioning engineers v advice and assistance may be relied upon.

A corps of competent consulting engineers is maintain the main office in Detroit for the convenience of the arc in adapting the broad line of Gar Wood Oil Heating Unit Air Conditioning Equipment to unusual installations, an economical solution of oil heating and air conditioning prob





DETROIT PLANTS OF GAR WOOD INDUSTRIES, INC.

GENERAL TYPES OF EQUIPMENT

ILER-BURNER UNIT—A compact, fully enclosed, bal- unit for steam or hot water heating, in four (4) sizes, ing of a steel, down draft boiler designed integrally with omatic oil burner. The unit has an overall efficiency o 90%. **See pages 3 and 4.**

DEL "R" BOILER-BURNER UNIT—An enclosed, bal- unit for steam or hot water heating, in one (1) size. A pass horizontal firetube steel boiler and automatic oil Initial costs compare favorably with the average con- burner installation. **See page 9.**

MPERED-AIRE-FURNACE, BURNER, FILTER, BLOWER —An enclosed, compact, balanced, humidified warm air ; unit, in three (3) sizes, consisting of a steel, down urnace designed integrally with its automatic oil burner, fier, and filter, blower, cabinet. **See pages 5 and 6.**

● **INDIRECT AIR CONDITIONING CABINET**—A compact, indirect air conditioning cabinet, in eight (8) sizes, consisting of air filter, blower, humidifier, and blast heater for use with the Boiler-Burner Units for either full indirect conditioned air heating or with a split system. **See pages 7 and 8.**

● **CONVERSION OIL BURNER UNITS**—Highly efficient automatic oil burners for installation in existing heating plants. Model "K" is made in four (4) sizes. Model "H," in one (1) size, is designed to meet the small home, low cost market with a dependable burner. **See page 12.**

● **AUTOMATIC OIL FIRED WATER HEATER**—A domestic water heater, in one (1) size, (used singly or in multiple) adapted to the large building field—Hotels, Hospitals, Clubs, Commercial Buildings, etc. Operation cost is surprisingly lower than with hitherto existing equipment. **See page 10.**

CHARACTERISTICS OF OIL BURNERS

PE—OIL BURNED—Gar Wood Oil Burners are pressure ation type. The Boiler-Burner and Conversion Units lo. 3 oil or lighter; Tempered-Aire Units, No. 2 oil or

RNER ASSEMBLY—All Gar Wood Oil Burners are fully tic under complete temperature and safety control.

tectorelay—The electric panel through which the auto- controls operate. It consists of a voltage stepdown trans- a warpswitch, warpswitch heater, two relays and ter- strips wired and mounted on a steel covered panel.

tor—The enclosed, horizontal motor which drives the oil and air fan is of the repulsion induction type, except the H" which is of the split phase type. All types except the nd "K" are cradled in rubber.

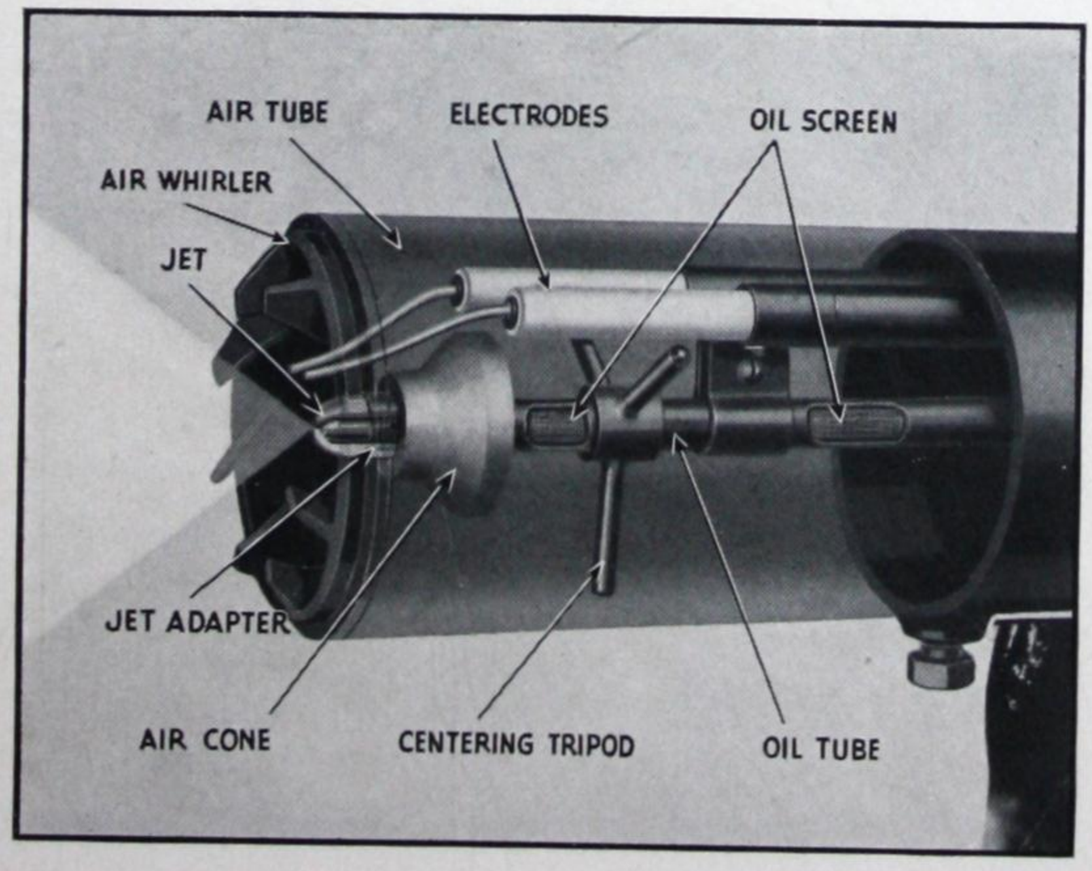
Filter—An advanced design filtering device, easily cleaned ting a small handle, connected in the oil supply line to pump.

Pump—A special, self lubricating gear pump, having a and a pressure stage is used in all types except the "H." H" has a single stage pump.

ssure Regulator—Provides a definite oil line pressure (ad- e between 50 and 150 lbs. per sq. in.) and a quick nozzle t-off immediately below erating point. Accessible ustment, it is connected n the oil pump and the e supply to the burner.

Tube and Nozzle—The , fitted with a removable ainer, terminates in the omizing jet or nozzle breaks up the oil under e (approximately 100 nto a fine mist and sprays hollow cone.

Fan and Whirler—A ss Sirroco fan with ad- e air port drives the air n the air tube which sur- the oil tube terminating irler which ejects the air otating hollow cone sur- ng the cone of oil mist ling an intimate mixture.



Ignition System—A positive electric ignition system using a 12,000 volt spark furnished by a step-up transformer.

● **CONTROLS**—The control units vary to suit the particular type of installation, electric current, etc.

Thermostat—A sensitive room thermostat, adjusted to a 2 degree temperature differential, starts and stops the cycle of burner operation to maintain a uniform temperature.

Dry Boiler Safety—Installed on steam or vapor boiler. Cuts the main current supply to the burner should the burner start without water in the boiler.

Aquastat—Operating control on hot water system. On steam system acts as minimum temperature limiting control to provide hot water during times the thermostat does not call for heat. Usually set at about 180 degrees.

Pyrostat—A sensitive safety control actuated by stack gas temperature. Shuts off burner should ignition fail to take place within 90 seconds of start of cycle.

● **OPERATION**—The motor driven oil pump, air fan, and ignition system, actuated by the thermostat, start simultaneously. The whirling gas formed at the burner nozzle is immediately ignited. The burner operates until the room temperature rise causes the thermostat to stop the burner cycle.

● **QUIET**—The motor is cradled in rubber. The burner assembly is sturdy and vibrationless. In operation it is practically noiseless.

● **EFFICIENCY**—Tests and actual field experience show maximum heat generated on a minimum oil consumption.

● **UNDERWRITERS APPROVAL**—All Gar Wood Oil Burners are listed and labeled as "Standard" by the National Board of Fire Underwriters' Laboratories.

GAR WOOD
THE AUTOMATIC OIL HEAT *That Reduces Fuel Cost* FOR ALL HEATING SYSTEMS

BOILER-BURNER UNIT

The Gar Wood Boiler-Burner Unit, in four (4) sizes, is a compact, down draft, steel steam or hot water heating boiler of unique design equipped with an oil burner, all precisely engineered to extract maximum heat energy from low grade (No. 3) domestic fuel oil with the greatest possible heating economy.

For indirect air conditioning equipment for use with this Boiler-Burner unit, see pages 7 and 8.

● **THE BOILER**—The boiler is constructed of heavy, rust resisting steel, electrically welded and annealed, assuring long life. Designed exclusively for efficient oil burning, it reverses the usual practice in boiler design in that the firebox is at the top and the flues below. The available heat in the oil fuel is released by combustion in a slowly revolving, hollow cylindrical flame, burned in suspension and not in contact with the combustion chamber walls.

More than half of the available heat is immediately absorbed by the water surrounding the combustion chamber. The remaining hot gases pass downward into narrow openings between a series of flat water tubes so baffled as to produce a scrubbing action. The design gives a maximum of heating surface (three times the ordinary flue area) resulting in almost complete heat transfer. The remaining heat in the waste gas, passing out through the stack, taken off at the bottom of the boiler, is comparatively slight.

Stack temperatures (approximately 275 degrees F.) are held just high enough to prevent condensation. You can comfortably place your hand on the stack when the burner is in operation. All units are completely equipped with the usual high grade boiler trimmings, such as pressure gauge, water glass with cocks, water tri-cocks, pop valve, low water safety, steam or vapor plants and altitude and temperature ga hot water plants. Smoke pipes are furnished with draf ilizers, adjustable to suit the particular installation. Th is effectively insulated against heat and sound transfer.

● **THE BURNER**—The oil burner, set entirely outsi boiler, but inside the jacket, is designed to match and the steam or hot water generator. See page 2 for char tics and complete automatic temperature and safety con

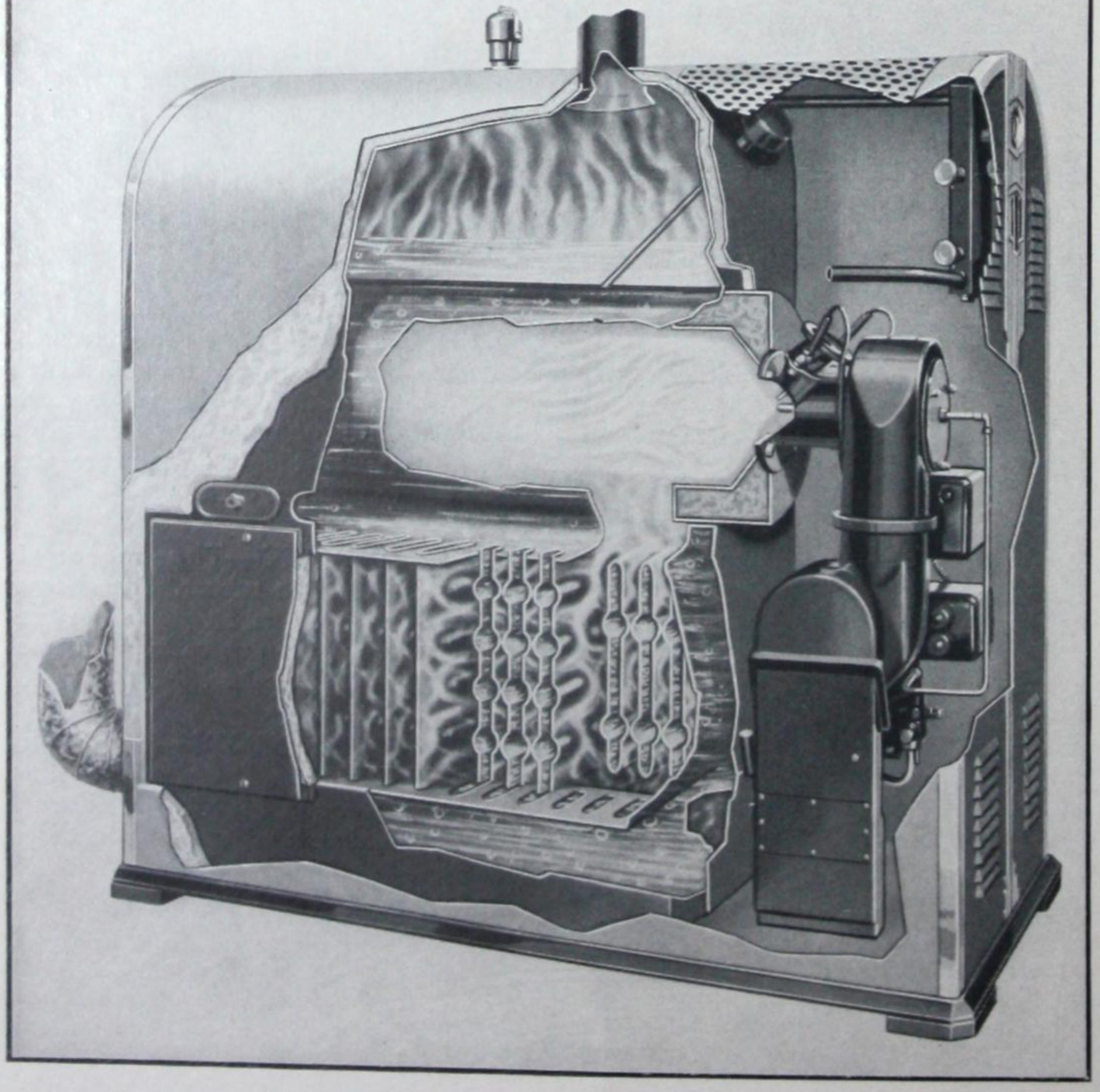
● **EFFICIENCY**—Not only is every inch of space ins Gar Wood Boiler-Burner unit utilized for practical heat but the boiler is designed on the counterflow princip water and the hot gases flow in opposite directions. The gases are exposed to the hottest water at the top, and th gases pass downward against the cooler water in the The overall efficiency thus obtained is close to 90%.

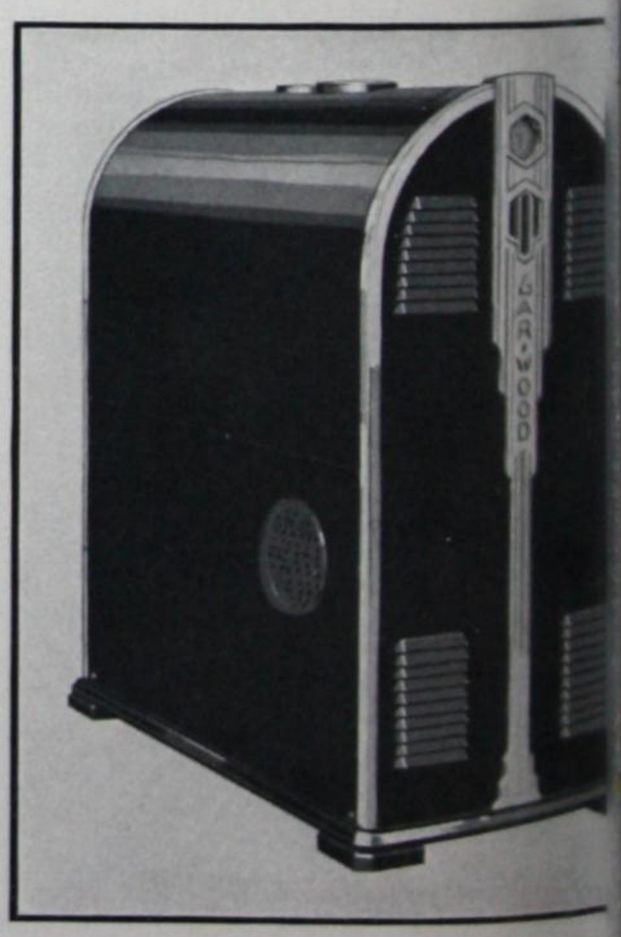
Rigid tests in the laboratories of the University of M show a saving in fuel consumption of from 25% to 35% coal firing—and by comparison with less efficient oil plants, a saving in excess of 40%.

● **ENTIRELY ENCLOSED**—The Boiler-Burner Unit is enclosed in a well designed lacquered steel casing appro trimmed. While all parts of the boiler unit are conve accessible by easy removal of the front, they are entirely e and out of sight, away from dust accumulation and possib pering. Entirely enclosed and insulat sounds of combustion and burner op are practically eliminated.

Due to its compactness and good ance, the heating unit does not detra its surroundings when located in rec rooms.

● **DOMESTIC HOT WATER SUP** Year-round domestic hot water su prime advantage, is made possible inclusion at the back of the boiler efficient, indirect copper coil water located below the water line.





/ thermostatically maintaining a water temperature of 180 de- in summer, domestic hot water nished at approximately one half ost of automatic gas equipment the further advantage that the -Burner unit is in constant oper- effectively protecting it against ual summer inoperative deterio-

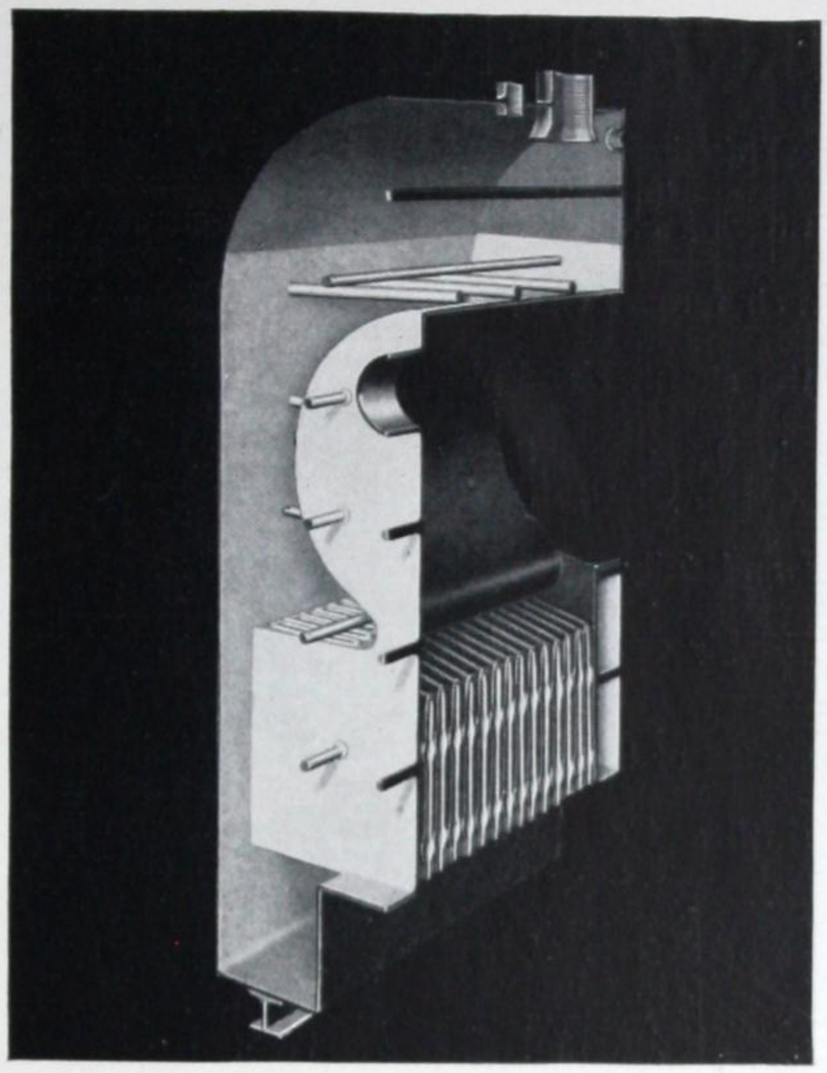
a hot water system an aquastat es the burner to maintain a con- stant boiler temperature all year around.

In the gravity hot water system a room thermostat operates a motor valve that controls the flow of water in the heating main.

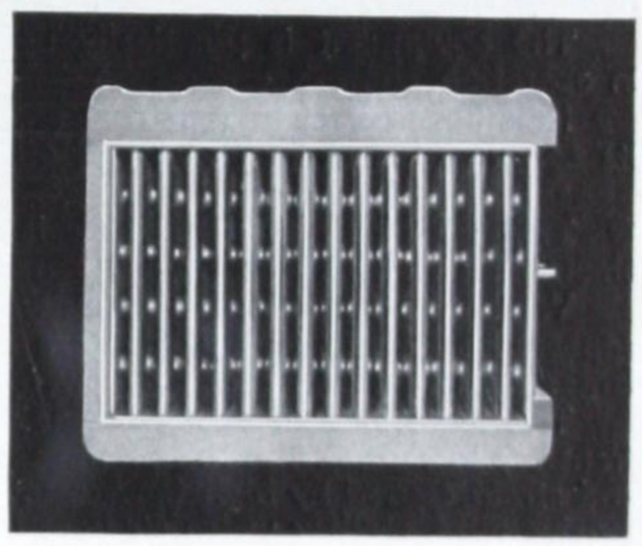
In the forced hot water system a room thermostat operates a centrifugal pump that forces open a set of check valves and produces very rapid and positive circulation. When the pump is at rest, the check valves effectively prevent gravity circulation.



ater tubes before they are welded e boiler assembly. Note the baffles produce a scrubbing action of the gases passing between the tubes



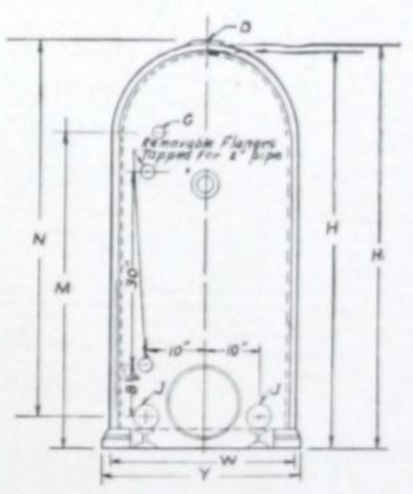
Section showing fire box, water tube and boiler shell assembly. A large amount of heat is absorbed by the cool water in its passage through the large area tubes



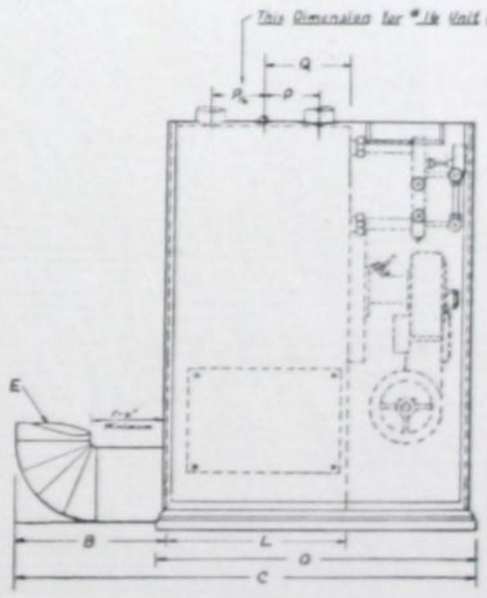
Side view of water tube assembly showing the baffled flue spaces between the tubes. This provides maximum heating surface (three times the ordinary flue area)

RATINGS AND DIMENSIONS

BOILER BURNER UNITS	Series 5	Series 8	Series 12	Series 16
ximum net steam load, sq. ft	500	800	1200	1600
ximum net hot water load, sq. ft	800	1280	1920	2560
ting surface, sq. ft	72	105	152	199
ted weight, lbs	1520	1880	2415	2805
-Length of boiler	21 1/4	28 3/4	39 1/4	49 3/4
-Length of jacket	42 3/4	50 1/4	60 3/4	71 1/4
-Over-all length	63 3/4	71 1/4	83 3/4	94 1/4
—Width of boiler without insulation	27	27	27	27
—Width of boiler with insulation	29 1/2	29 1/2	29 1/2	29 1/2
-Over-all width of jacket	31 1/2	31 1/2	31 1/2	31 1/2
-Height without insulation	59 3/4	59 3/4	60 3/4	60 3/4
—Height with insulation and jacket	60 3/4	60 3/4	61 3/4	61 3/4
-Without insulation	23	23	25	25
-Size of steam nozzle	4	4	4	Two 4
-Stack size	10	10	12	12
-Inspection glass opening	4	4	4	4
-Flow off	1	1	1	1
Water return	Two 2 1/2	Two 2 1/2	Two 2 1/2	Two 2 1/2
—Height of water line	49 3/4	49 3/4	50 3/4	50 3/4
—Return to nozzle	56	56	56	56
-Front of boiler to pop valve	13 1/8	14 3/8	19 5/8	16 1/8
-Pop valve to steam nozzle	8 3/4	8 3/4	8 3/4	11 3/16
ter capacity, gals	56	80	104	128
mney dimensions	8x12	12x12	12x16	12x20



Front Elevation



Side Elevation

Connect water return to both water legs with drain cock on each.

Special burner for commercial use with No. 16 boiler to provide steam capacity of 300 sq. ft. The ratings given above are **net**. Allowance has been made for piping and ck-up loads according to the recommendations of the national associations.

Standard Gar Wood indirect external water heater suitable for 66-gallon storage nk, all year use, steam or hot water boiler. Special size available for tanks up to 100 llons. Heaters fit flanges on left rear of boiler.

GAR WOOD

THE AUTOMATIC OIL HEAT *That Reduces Fuel Cost* FOR ALL HEATING SYSTEMS

TEMPERED-AIRE-FURNACE BURNER FILTER BLOWER UN

The Tempered-Aire Heating and Air Conditioning Equipment (made in three (3) sizes) consists of two units in tandem—a heating and humidifying unit and an air filtering and circulating cabinet.

The heating unit is a down draft, warm air furnace equipped with an integral oil burner.

The air conditioning cabinet contains the air filter and circulating blower.

Air is cleaned, warmed (not scorched), automatically humidified and fan circulated in the most direct, efficient, economical manner.

The equipment is practically noiseless and fully automatic in operation.

It is economical in first cost and surprisingly economical in its consumption of low cost fuel oil.

● **THE FURNACE**—The furnace is constructed of heavy steel, electrically welded.

While the heating unit is outwardly small and compact in appearance, in reality it contains a heating surface three times larger than that of the ordinary warm air furnace.

The large size of the firebox slows down the rate of heat transfer, increasing the life of the unit by eliminating the wear and strain caused by high temperature operation. Again, rooms receive mild, mellow warm air heat instead of the usual blast of hot, parched air.

Below the firebox is that important, exclusive Gar Wood feature, the economizer, by means of which heat normally wasted in other furnaces is conserved and utilized. This consists of a series of flat, thin flues, separated by thin air spaces, through which the hot gases pass before entering the smoke pipe. economizer flues expose an enormous amount of heating s in a very compact space, resulting in greatly lowered ope costs. Cool incoming air, passing through the interstic tween the flues and wiping their outer surfaces, is pre-hea the first step.

The second step is the final heat by contact with th box. In other words, we have a "counter flow" or re transfer of heat. The economizer places the gases in the in contact with the cool air discharged by the blower, r for the maximum difference in temperature between gas a and consequent extraction of heat.

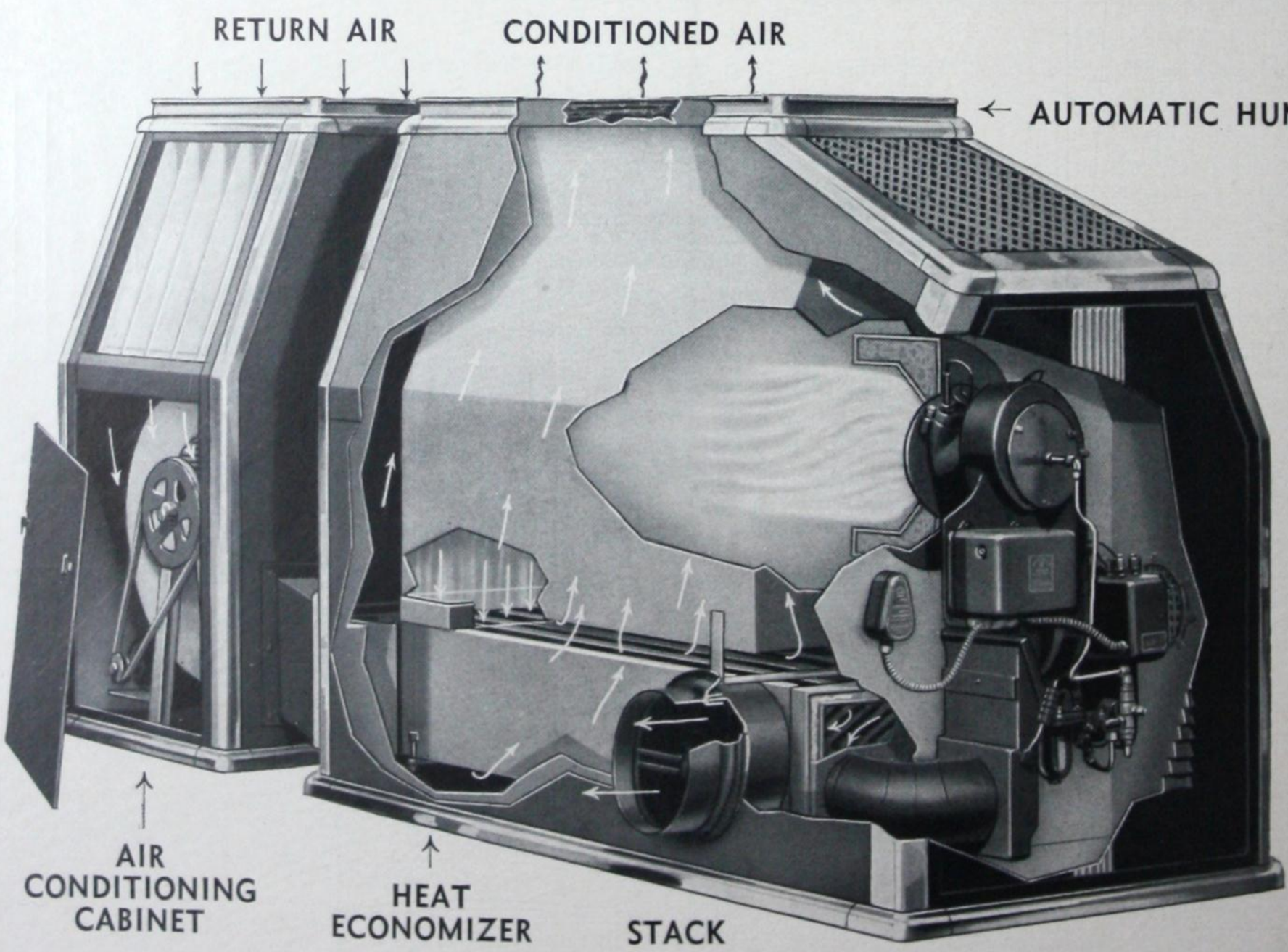
Above the firebox is located the humidifying pan aut cally controlled to maintain the proper degree of healthful ture in the air.

● **THE BURNER**—The burner, a Gar Wood pressure ato type, is designed as an integral part of the furnace.

The mixture is fired into a refractory bowl which act combustion chamber. A clean, gentle, quiet flame disc from this bowl into the center of the giant firebox, whic as a "plenum chamber." The result is a soft "soaking" fer of heat rather than the sharp cutting action where fl allowed to impinge on a heating surface.

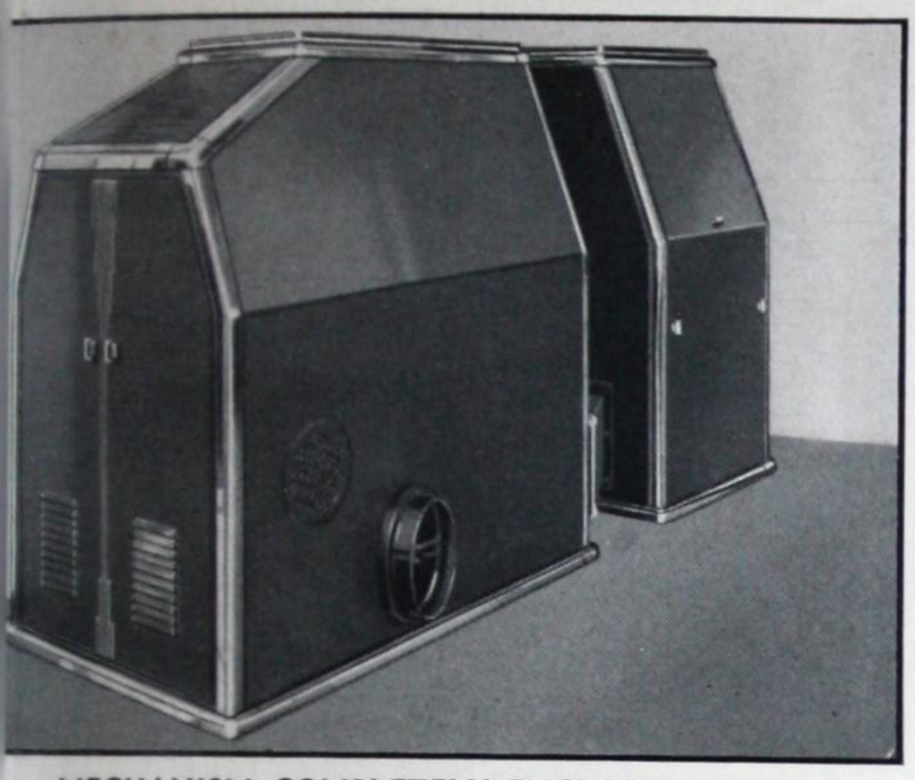
For full description, characteristics, and safety contro page 2.

● **EFFICIENCY**—Nearly ninety per cent (90%) of the generated is absorbed. Stack temperatures (approximatel degrees) are held just high enough to prevent condensatic

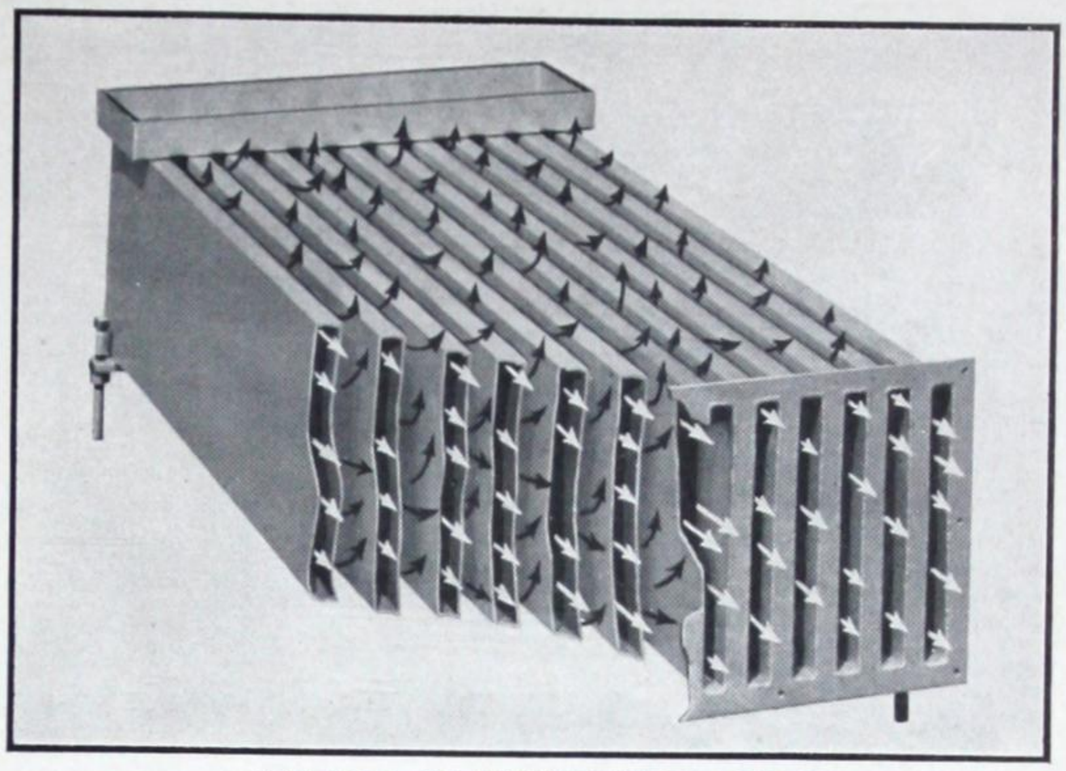


GAR-WOOD

THE AUTOMATIC OIL HEAT *That Reduces Fuel Cost* FOR ALL HEATING SYSTEMS



MECHANISM COMPLETELY ENCLOSED



SECTION OF ECONOMIZER FLUES

TIRELY ENCLOSED—The Furnace Burner Unit is entirely d in a well designed, lacquered steel casing. The front unit is removable to give convenient access to the burner s out of sight and away from dust accumulation and pos- mpering. It is thoroughly insulated from the heat gen- in the furnace, and cooled by a small fan on the motor hat ventilates the com- nt.

E AIR FILTER AND ER CABINET—Com- and efficiently designed, filter and blower unit ntegral part of the air ning plant and matches ting unit casing in color ish.

bag filters at the top cabinet thoroughly clean rain the air as it is in by the fan through irculating air duct. The ags are easily removed be cleaned in a wash- chine.

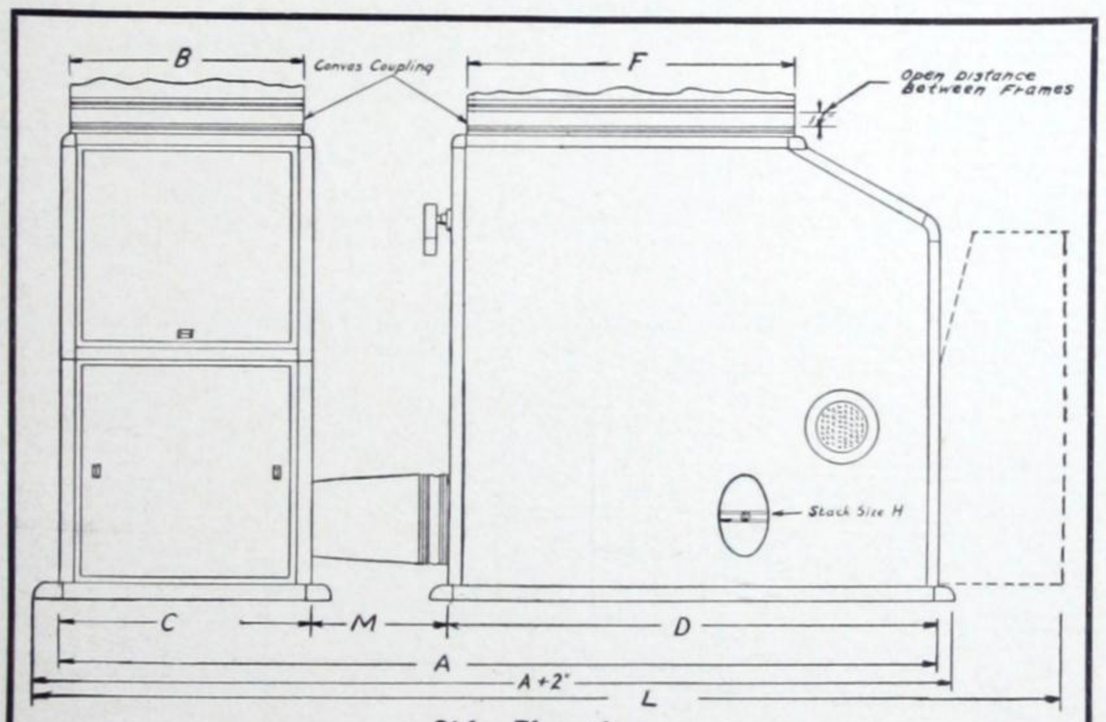
clean air is then blown e economizer, then up around the firebox and past the humidifier. It is warmed and humidified and driven through the fresh air ducts to the various rooms. A room humidistat automatically controls the delivery of water to the humidifier.

● **SUMMER COOLING**—Without the usual initial expense and the expense of operation involved in the installation of a cooling plant, comfortable summer temperatures may be maintained by merely circulating the air.

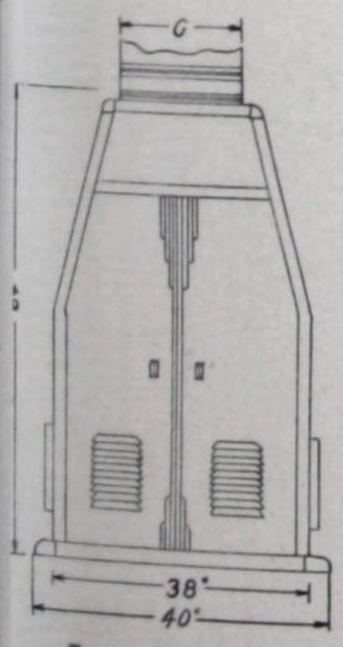
The night temperature of the outside air averages 20 degrees cooler than day temperatures. At night the cooler outside air is drawn through the blower cabinet and circulated through the rooms.

During the day time the cooler basement air is circulated through the rooms, maintaining the low temperature.

The constant, draftless, complete air circulation through all the rooms is in itself highly beneficial.



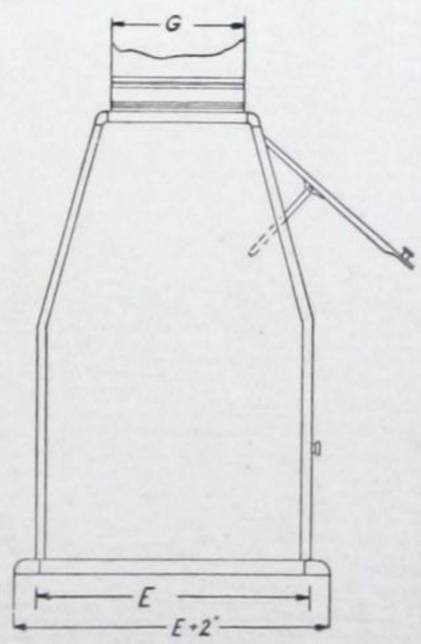
Side Elevation



Front Elevation

RATINGS AND DIMENSIONS	No. 103	No. 104	No. 105
B.t.u. 1 hr. at bonnet	165,000	225,000	300,000
B.t.u. 1 hr. at grilles	135,000	185,000	245,000
Air delivery C.f.m.	1375-2150	1875-2950	2500-3925
Air temperature at bonnet	175°-135°	175°-135°	175°-135°
Oil rate, gallons 1 hr.	1.65	2.25	3.00
Heating surface, fire box	33	44	55
Heating surface, economizer	85	117	150
Heating surface, total	118	161	205
Crated weight	1950	2180	2795
Dimension A	115 13/16"	138 1/4"	154 1/4"
Dimension B (inside frame)	32 3/16"	36 3/16"	45 7/16"
Dimension C	34 1/4"	38 1/4"	47 1/2"
Dimension D	63"	75"	87"
Dimension E	38"	38"	38"
Dimension F (inside frame)	42 3/8"	54 3/8"	66 3/8"
Dimension G (inside frame)	17 15/16"	17 15/16"	17 15/16"
Dimension H	10"	10"	10"
Dimension L	133 5/16"	167 3/4"	171 3/4"
Dimension M	18 9/16"	25"	19 3/4"

Dimensions B, F and G are inside measurements of separate steel frame for attaching duct work.



Rear Elevation

INDIRECT AIR CONDITIONING EQUIPMENT

The Gar Wood Indirect Air Conditioning Equipment (made in eight (8) sizes) consists of a compact cabinet unit containing air filter, blower, humidifying chamber, and indirect, blast heater.

While designed particularly for use and greatest economy with Gar Wood Boiler-Burner Units (steam, vapor, or hot water) described in detail on pages 3, 4, and 9, the air conditioning unit may be used effectively with any adequate existing heating plant.

● **ADVANTAGES**—There are several advantages derived from the indirect air conditioning system which are not possible with the direct warm air system as described on pages 5 and 6.

(1) **Split System**—In connection with the steam, vapor, or hot water heating boiler, the air conditioning unit can be operated either as a full indirect warm air system or as a split system (part radiation and part warm air).

In the full indirect warm air system all the steam, vapor, or hot water generated is utilized by the indirect blast heater as the sole source of heat.

In the split system part of the steam, vapor, or hot water generated is utilized to heat direct radiation and part is used by the air conditioning blast heater. Certain rooms, such as kitchens, bathrooms, servants' quarters, etc., not usually air conditioned, or second and third story rooms in existing buildings, where it is not practical to install the air conditioning duct system, may be heated by direct radiation and the remainder of the house may be "air conditioned" by the indirect unit.

(2) **Domestic Hot Water Supply**—Where a Gar Wood Boiler-Burner Unit is installed in connection with the Indirect Air Conditioning Unit, adequate year round domestic hot water supply can be furnished at one half the usual gas equipment cost. See page 3 for detailed description.

(3) **Latitude in Location**—The Air Conditioning Unit not be located adjacent to the Boiler-Burner Unit since obv the steam, vapor, or hot water supply and return servin blast heater can be carried to any point in the basement. a single large unit or two or more small units can often located as to reduce the amount of overhead duct worl make valuable unrestricted basement space available for a ment purposes.

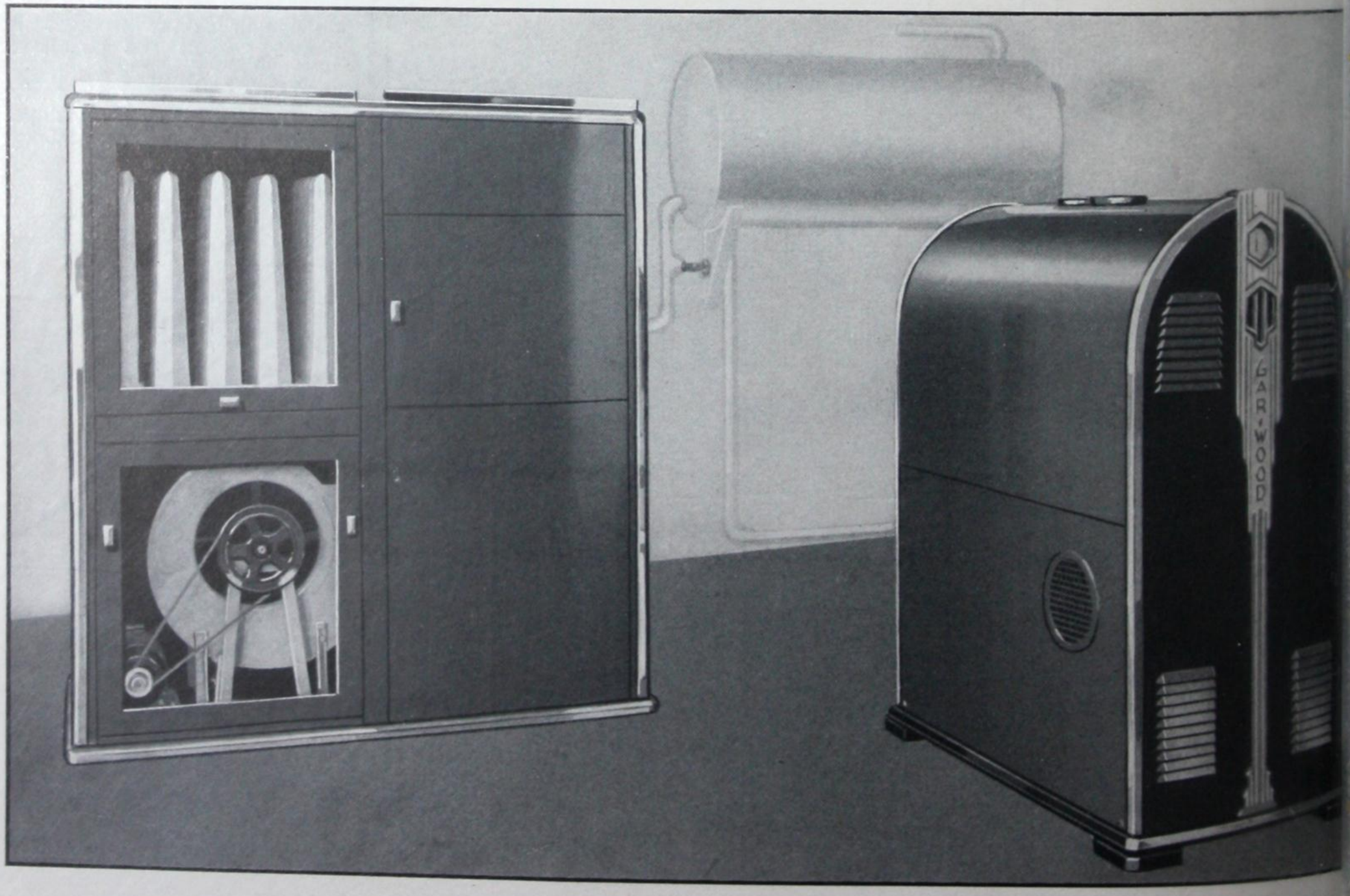
● **THE ASSEMBLY AND HOW IT OPERATES**—The air by the fan from the recirculating air duct system is first oughly cleaned by passing it through a battery of bag located at the top of the cabinet immediately above th The filter bags, which are standard equipment, are easi moved and cleansed in an ordinary washing machine. method of air filtration is thoroughly effective and low in initial cost and maintenance.

The clean air drawn through the fan is next blown th the humidifying chamber where the proper amount of hea moisture is added by passing it through a warm vapor mist matically regulated by a room humidistat.

The clean humidified air is then warmed to the proper perature by its passage through a copper blast heater.

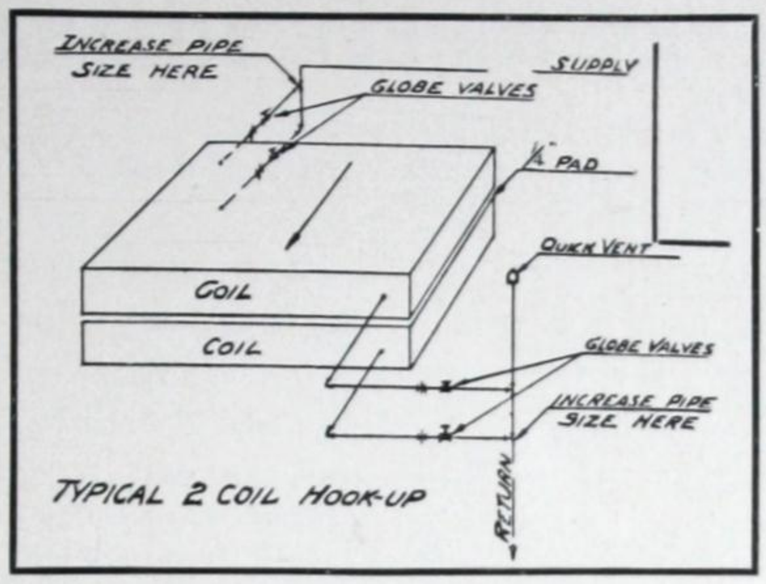
This completely conditioned air passing through the air duct system is gently circulated throughout the various under fan pressure.

● **SUMMER COOLING**—In summer great comfort may b rived by merely circulating the filtered air through the h During the daytime the cooler basement air may be adn into the recirculating duct system to reduce the room perature and at night the cooler outside air may be sin utilized. For complete description see page 6.



humidification and actual cooling
omplished where natural cold or
rated water is provided. The cold
is circulated through the blast
which is enlarged to furnish suffi-
dded capacity for cooling.
echanical cooling and dehumidifi-
may be also accomplished by the
n of a compressor and a direct
ion coil located in the return

OD APPEARANCE—The Air Con-

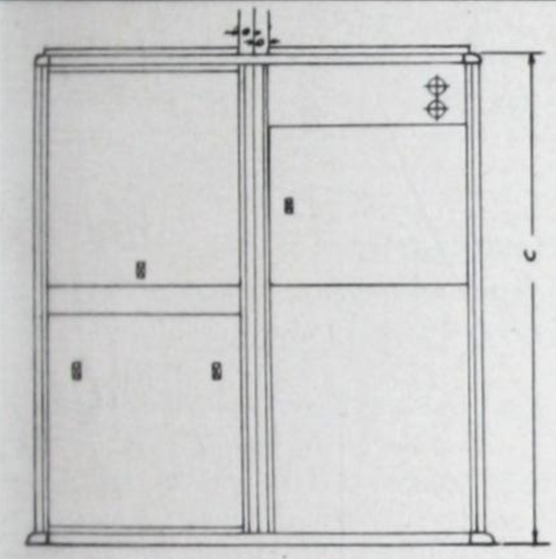


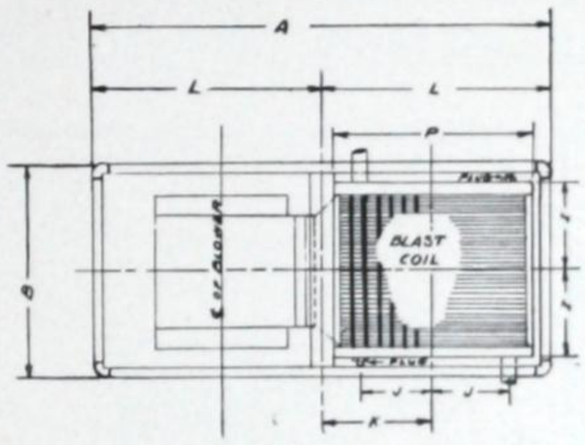
TYPICAL 2 COIL HOOK-UP

ditioning Unit is compact and comparatively small in size. The cabinet is made of sheet steel, lacquered and trimmed to match the Gar Wood Boiler-Burner Units.

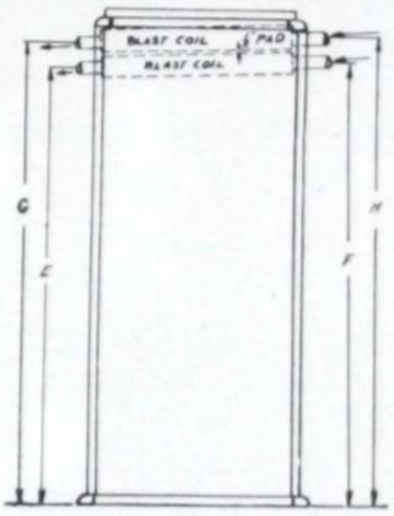
● **QUIET OPERATION**—The fan and motor assembly are designed and mounted to eliminate all vibration and operate at capacity with the utmost quiet. The bearings are rubber cushioned, the motor is rubber hinged, and the entire base rests on four rubber feet.

CAPACITIES AND DIMENSIONS OF AIR CONDITIONING CABINETS


Front Elevation



Plan



End Elevation

TYPE	322	323A	323B	324	502	503A	503B	504
1 hr.—Bon-	111,000	174,000	200,000	231,000	240,000	382,000	430,000	497,000
1 hr.—At les	89,000	140,000	160,000	185,000	192,000	305,000	345,000	397,000
—Net steam	370	580	665	770	800	1270	1440	1660
	1200	1600	2000	2000	2600	3500	4300	4300
mp.—Bonnet	145°	160°	152°	166°	145°	160°	152°	166°
r	#16	#16	#16	#16	#20	#20	#20	#20
r pulley...	12	10	10	10	12	10	Two—10"	Two—10"
—Hp.	⅓	⅓	⅓	⅓	½	¾	1	1
pulley	2.1 to 2.9	2.1 to 2.9	2.1-2.9	2.1-2.9	2.1-2.9	2.1-2.9	Two-2.1-2.9	Two-2.1-2.9
r—R.p.m.	325-375	400-450	475-525	475-525	325-375	400-450	475-525	475-525
area—Sq. ft	45	45	45	45	90	90	90	90
system al-lowable frict...	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"
belt	#1064	#1060	#1060	#1060	#2072	#2068	2-#2068	2—#2068
main con.	1—2"	2—2"	2—2"	2—2"	1—2½"	2—2½"	2—2½"	2—2½"
n connect..	1—2"	2—2"	2—2"	2—2"	1—2½"	2—2½"	2—2½"	2—2½"
e frame	30 15/16"x31 5/8"	30 15/16"x31 5/8"	30 15/16"x31 5/8"	30 15/16"x31 5/8"	48 7/16"x38 5/8"	48 7/16"x38 5/8"	48 7/16"x38 5/8"	48 7/16"x38 5/8"
arge frame.	30 15/16"x31 5/8"	30 15/16"x31 5/8"	30 15/16"x31 5/8"	30 15/16"x31 5/8"	48 7/16"x38 5/8"	48 7/16"x38 5/8"	48 7/16"x38 5/8"	48 7/16"x38 5/8"
nsion A	68¼"	68¼"	68¼"	68¼"	82¼"	82¼"	82¼"	82¼"
nsion B	32¾"	32¾"	32¾"	32¾"	50¼"	50¼"	50¼"	50¼"
nsion C	72"	76"	76"	76"	74"	78"	78"	78"
nsion E	66⅛"	66⅛"	66⅛"	66⅛"	66½"	66½"	66½"	66½"
nsion F	68⅛"	68⅛"	68⅛"	68⅛"	68½"	68½"	68½"	68½"
nsion G	1 coil only	70⅞"	70⅞"	70⅞"	1 coil only	70⅝"	70⅝"	72 7/16"
nsion H	1 coil only	72⅞"	72⅞"	72⅞"	1 coil only	72⅝"	72⅝"	74 7/16"
nsion I	14¼"	14¼"	14¼"	14¼"	20¾"	20¾"	20¾"	20¾"
nsion J	11¾"	11¾"	11¾"	11¾"	13 17/32"	13 17/32"	13 17/32"	13 17/32"
nsion K	16¼"	16¼"	16¼"	16¼"	20½"	20½"	20½"	20½"
nsion L	34⅛"	34⅛"	34⅛"	34⅛"	41⅛"	41⅛"	41⅛"	41⅛"
nsion O	1⅝"	1⅝"	1⅝"	1⅝"	1⅝"	1⅝"	1⅝"	1⅝"
nsion P	29"	29"	29"	29"	34"	34"	34"	34"

Based on steam at 5 lbs. pressure.
carry hot water radiation on a split system use an indirect heater above the water line to supply radiators. Use heater ratings of manufacturer

MODEL "R" BOILER-BURNER UNIT

The Gar Wood Model "R" Boiler-Burner Unit is a compact, steel, triple pass steam or hot water heating boiler equipped with an oil burner designed as a balanced unit for small homes of from 5 to 7 rooms.

It provides a complete automatic combination of boiler, burner, and controls which cost little more than a well built conversion burner installed in an existing heating plant.

For indirect air conditioning equipment for use with this Boiler-Burner unit, see pages 7 and 8.

● **THE BOILER**—The boiler is constructed of heavy boiler plate, electrically welded.

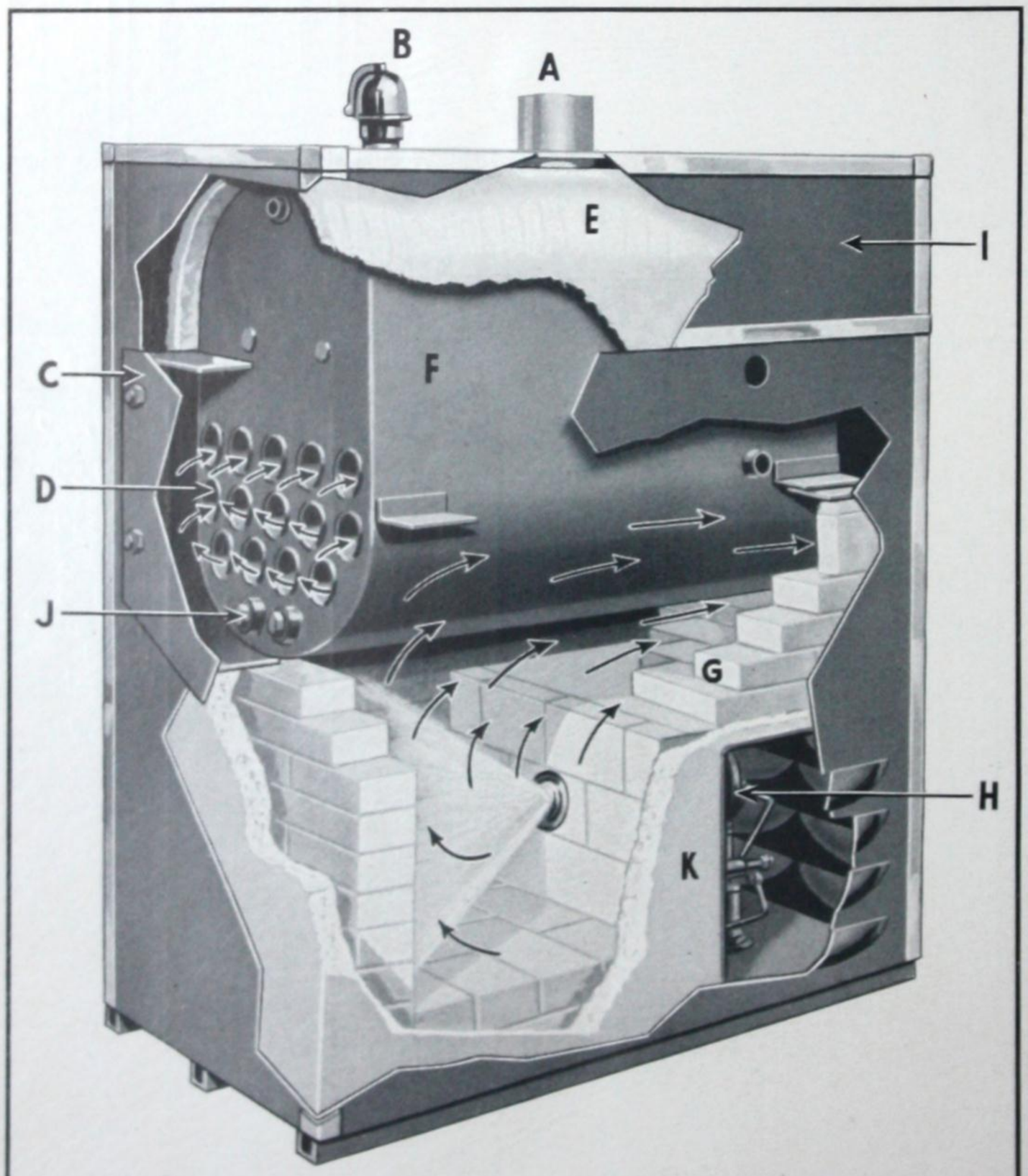
Designed exclusively for efficient oil burning, it is in principle, a midget power boiler. The boiler shell is horizontal and contains a large number of fire tubes to provide an ample heating surface. The fire tube construction provides freedom from scale formation. Large clean-outs are provided.

The fire box (combustion chamber) at the front is heavily insulated and lined with refractory material so that the h the side walls is radiated back into the flame, thus rais temperature and improving the combustion of cheaper oils heat travel doubles back over the flame to the rear—th pass is therefore in the fire box itself with the hottes traversing the boiler shell. The gas travel is next double first through the lower tier of fire tubes, then back t the upper tier. The boiler is thoroughly insulated again and sound transfer.

The unit is completely equipped with high grade trimmings, such as pressure gauge, water glass with water water tri-cocks, pop valve, etc. for steam and altitude an perature gauge for hot water plants.

● **THE BURNER**—The oil burner, located at the rear b is designed to match and balance the boiler. See page complete description of burner assembly, and automatic perature and safety controls and operation.

An insulating deck completely the burner motor, and ignition trans from the high temperatures.



A—Steam or water nozzle
B—Pop valve
C—Flue door
D—Boiler tubes
E—Jacket insulation
F—Boiler
G—Refractory brick
H—Pressure atomizing burner
I—Lacquered steel jacket
J—Water cleanout plugs
K—Fire box insulation

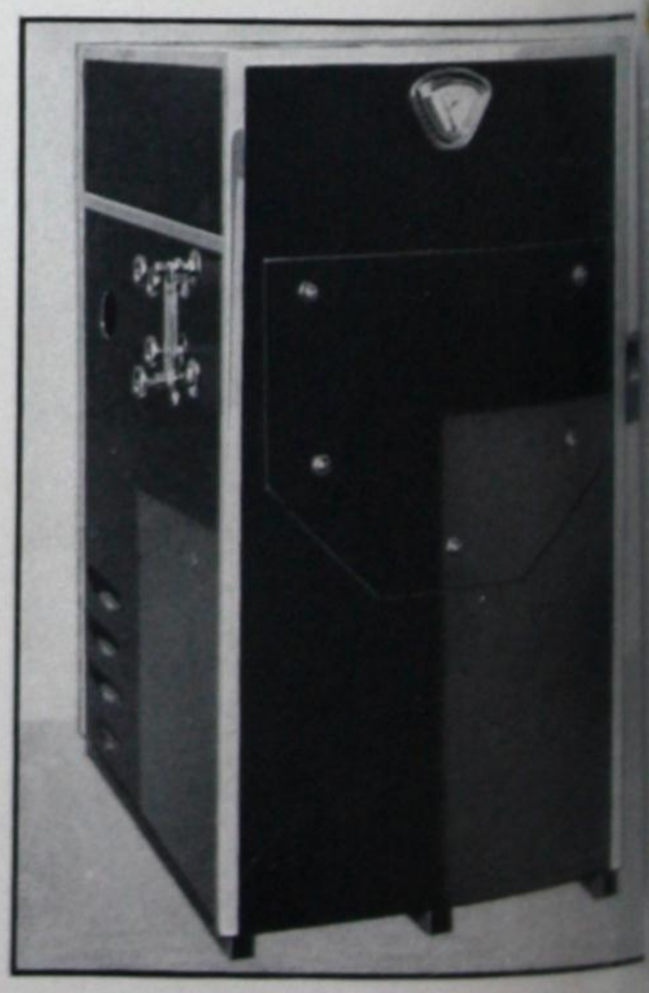
● **EFFICIENCY**—Due to the desig tually all the heat is extracted, result fuel economy.

● **ENTIRELY ENCLOSED**—The Mod Boiler-Burner Unit is entirely enclosed attractive, well finished, lacquered casing.

● **DOMESTIC HOT WATER SUPP** Year-round domestic hot water supp be economically secured as describ page 3.

● **DIMENSIONS AND CAPACITIES**

Overall Height	55
Overall Width	28
Overall Length	46
Height of Water Line	40
Net Load Steam	450
Net Load Hot Water	720



AUTOMATIC OIL FIRED WATER HEATER

Gar Wood Model "Q" Water Heater provides the least
/e, most convenient method of producing a quick, inex-
e supply of domestic hot water for industrial and com-
buildings. It is particularly adapted to use in restaurants,
lubs, hotels, hospitals, schools, office buildings, factories,
e country estates.
capacity of a single unit is 200 gallons per hour through
gree F. temperature rise. Two or more units can be
together to economically handle any required volume in
f the single unit capacity.
s a complete, quietly operating, balanced unit which
w priced No. 3 fuel oil. With full electrical tempera-
l safety control, it needs no attention.
extremely compact design and low overall height permit
llation in shallow basements.

WATER HEATER—The shell is constructed of heavy
iler plate, electrically welded.
rinciple it is a triple pass small power boiler with large
al fire tubes similar in design and operation to the Gar
Model "R" Heating Boiler described
on page 9 opposite.
unit is effectively insulated against
and sound transfer.

OIL BURNER—The burner, a Gar
ressure atomizing type, is designed
lly to match and balance the boiler.
description, characteristics, and
ntrols, see page 2.
temperature of the water is con-
y two aquastats, one for high tem-
and one for the temperature of
r in the storage tank, which auto-
start and stop the burner cycle of
.
insulating deck completely isolates
ner mechanism from the effects of
generated.
working parts of the burner are en-
t the back.

CIENCY AND ECONOMY—The
extremely efficient. All the space
ne boiler is utilized for rapid and
complete heat transfer as evidenced by the low stack temperature.

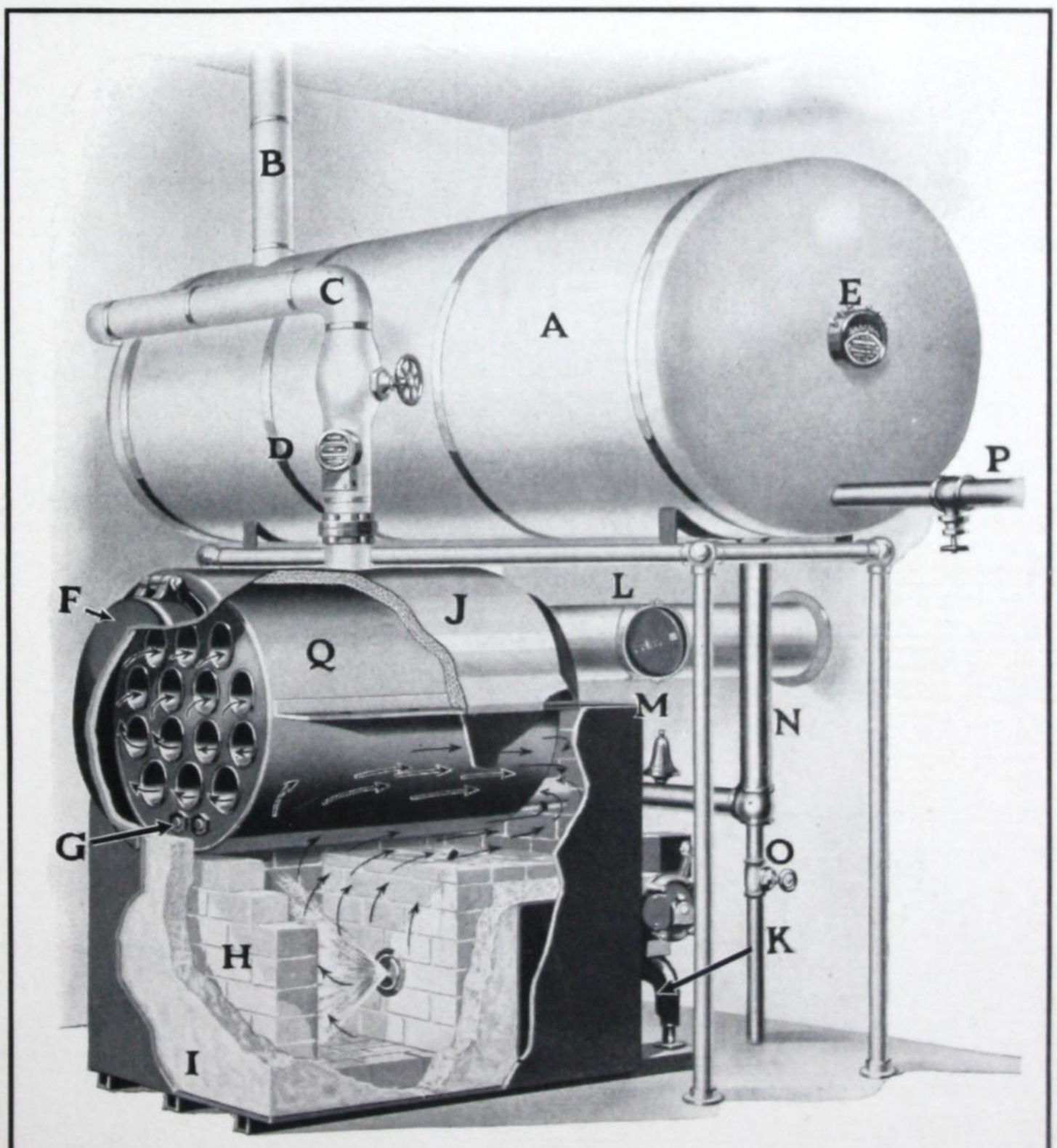
Operating at capacity, the unit consumes but about 10 cents worth of fuel oil per hour. A constant supply of steaming hot water is produced at approximately one half the usual operating cost of artificial gas fired equipment, and considerably less than it can be produced with coal fired equipment, attendance considered.

● **JACKET**—The unit is enclosed in a well finished lacquered steel jacket. The oil burner is exposed at the rear.

● **DIMENSIONS AND CAPACITY**—

Overall Height	46½ in.
Overall Width	28¼ in.
Length, without Burner	46 in.
Length, with Burner	64 in.
Water Inlet	two, 2 in.
Water Outlet	one, 3 in.
Capacity 200 gals	100 deg. F. temp. rise per hr.





A—Hot water storage tank
B—Hot water outlet to fixtures
C—Flow line from heater to tank
D—High limit aquastat, controlling maximum temperature
E—Low limit controlling aquastat
F—Flue door
G—Water clean out plugs
H—Firebrick
I—High temperature insulation
J—Steel jacket
K—Oil burner
L—Draft adjustor
M—Water pressure relief
N—Return water line
O—Drain
P—Cold water inlet
Q—Steel fire tube heater

CONVERSION OIL BURNERS

Gar Wood Conversion Oil Burners are designed specifically to provide existing coal-fired heating plants with clean, automatic oil burning equipment.

While the outstanding high efficiency and operating economy obtained in the complete Gar Wood Boiler-Burner and Tempered-Aire Units cannot be attained in a boiler or furnace not specifically designed for oil fuel, all of the trouble-proof efficiency of the oil burning mechanism used in these units is available in these conversion burners.

Gar Wood Conversion Oil Burners are of the pressure atomizing type designed to handle the heavier, cheaper grades of fuel. They are fully automatic and are listed and labeled as "Standard" by the National Board of Fire Underwriters' Laboratories.

For complete description of burner assembly, automatic controls, and operation, see page 2.

● **STURDY AND SIMPLE**—Gar Wood Conversion Oil Burners are extremely sturdy in construction and so simplified in design that a considerable number of parts, common to conventional burner practice, are entirely eliminated. There are no floats, oil valves, or complicated mechanisms to get out of adjustment. The positive electric ignition system eliminates the usual gas pilot and its extra expense.

● **ECONOMIES**—The simplification in design and mechanical operation reduces the initial cost of Gar Wood equipment below that of other burners of comparable efficiency.

Again Gar Wood Conversion Oil Burners redu bills by burning heavy furnace oils (No. 3) costs less, yet delivers more heat units per The luminous flame, firing into the ash pit, tra heat to all the inside surfaces of the boiler. bustion is complete—there is no smoke or o

● **ACCESSIBILITY**—The burner is located the fire box, protected from heat deteriorizati easily accessible for inspection and adjustmen entire firing assembly can be removed throu rear in a few seconds without disturbing the setting.

● **NOISELESS**—The burner assembly is stur vibrationless. In operation it is practically no

● **MODEL "K" BURNER**—The Model "K" C sion Burner is designed to fulfill the most di nating demands in the conversion oil burne It is extremely flexible in capacity, through a of triple range interchangeable blowers an motor speeds which will take care of any plant capacity fro to 2500 sq. ft. steam radiation.

● **MODEL "H" BU** —The Model "H" version Burner is de to provide the smal market with an ef burner at low cost. made in but one s handle capacities 625 sq. ft. of net and 1000 sq. ft. water radiation— cient for the avera to seven room hous

BURNER CAPACITIES

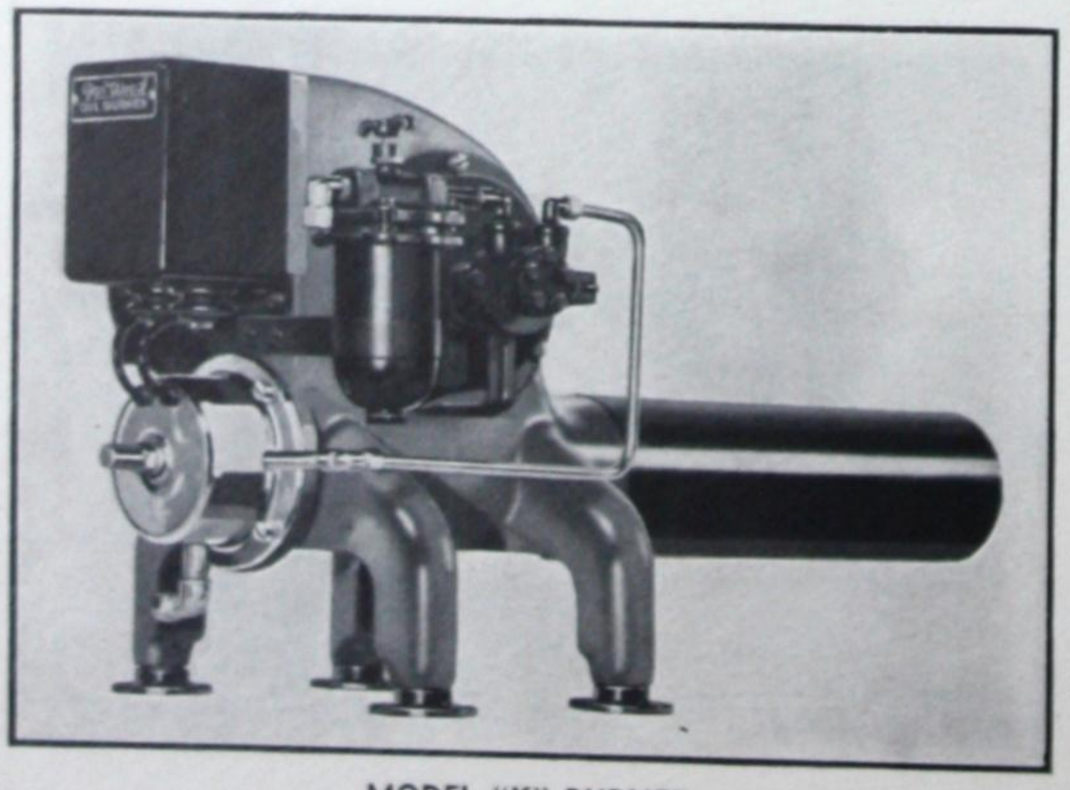
MODEL "K"

MODEL	GAL. PER HR.	NET RADIATION STEAM
K-1	1.65 to 2.50	412 to 625
K-2	2.00 to 4.00	500 to 1000
K-3	3.00 to 6.00	750 to 1500
*K-35	5.00 to 10.00	1250 to 2400

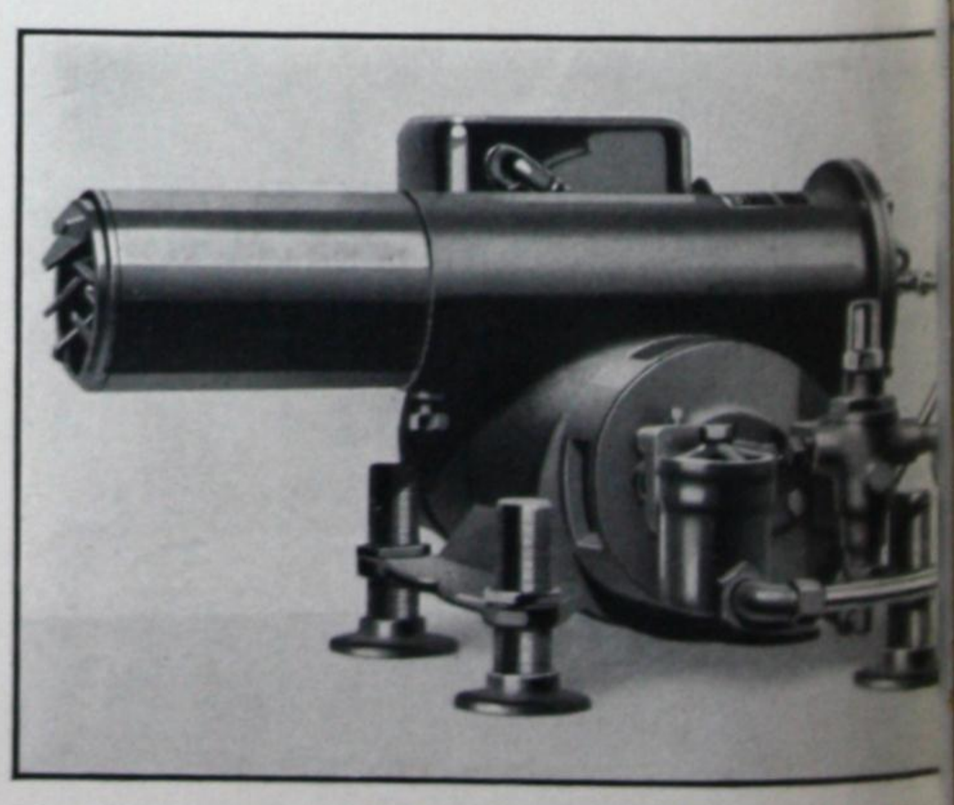
MODEL "H"

H	1.65 to 2.50	412 to 625

For hot water, multiply the above radiation figures by 1.6; for gross load add 50%.
*Available for 60 cycles or d-c. only.

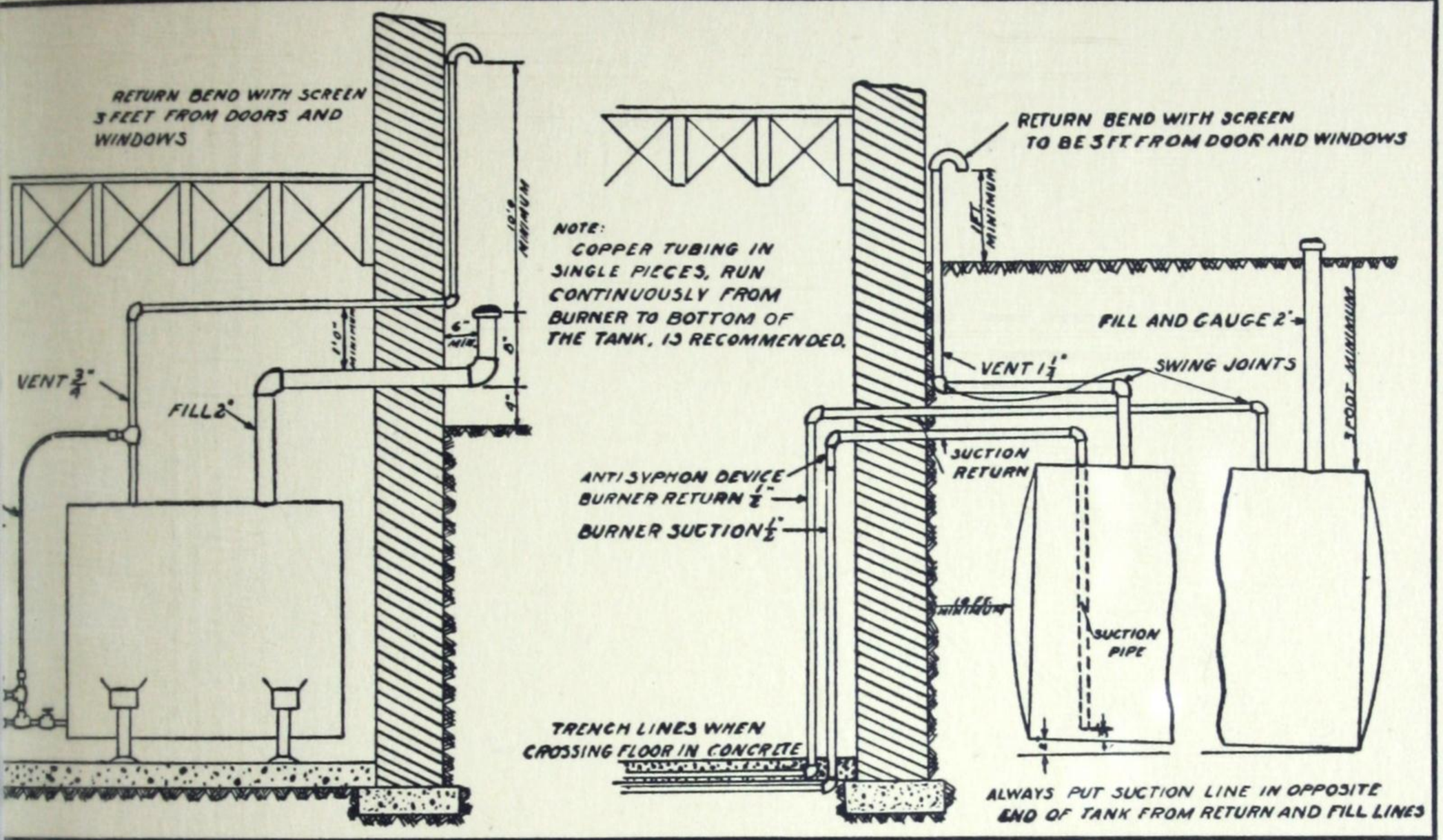


MODEL "K" BURNER



MODEL "H" BURNER

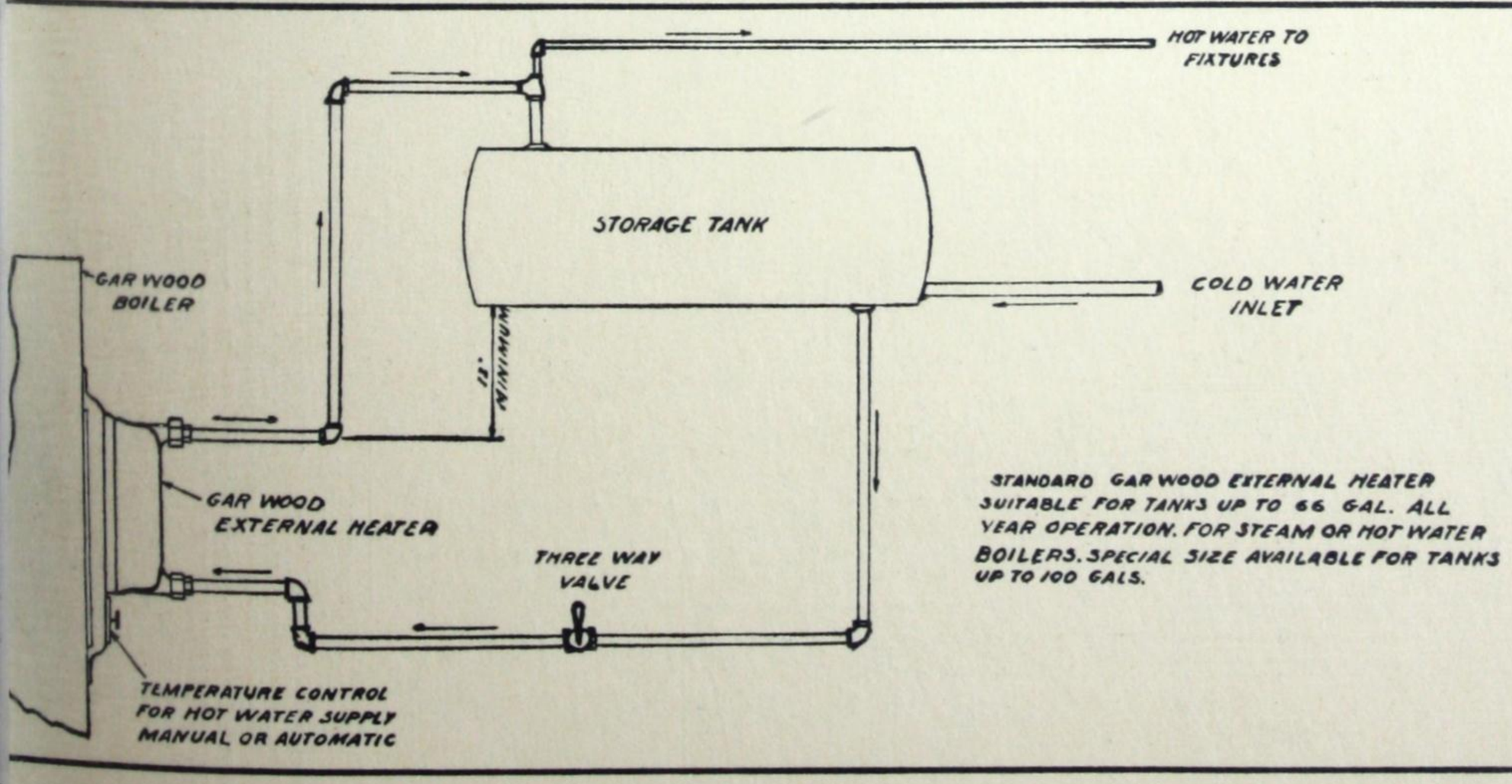
TYPICAL OIL TANK INSTALLATIONS



TANK INSTALLATION—Above are shown typical inside ide oil storage tank installations. The inside oil storage ist of a single tank or twin tanks connected by a three 'e to permit only one tank being open at a time. The nes shown above are provided to take advantage of the ıing feature of the two stage oil pumps furnished with Wood burners except the model H Conversion Burner.

● **DOMESTIC HOT WATER SUPPLY**—Gar Wood indirect external water heaters are attached to the boiler by means of flanges, thus eliminating piping expense. The external design provides very rapid boiler water circulation, and makes possible water temperature control. This temperature control is located in the bottom of the heater and may be either manual or automatic. For advantages and further data, see page 3.

DOMESTIC HOT WATER SUPPLY



TEN IMPORTANT NEW FEATURES OF THE 1934 UNITS

1. New beauty—Cabinets and casings completely redesigned and restyled, in a modern manner, and furnished in standard two-tone finish or deluxe chromium plated trim.

2. Burner completely enclosed in a separate compartment making for improved appearance. A cooling fan on burner shaft extension is provided for ventilation.

3. Burner motor is rubber mounted. Assures extremely quiet operation. Admission of slight amount of air around shaft keeps blower and bearing cool.

4. Two-stage oil pump provided. Eliminates suction line troubles and makes starting up with dry lines possible without priming or purging.

5. Compensator pivot shaft equipped with tension device to eliminate mechanical noise.

6. High tension leads enclosed in copper tubing for protection and elimination of radio interference.

In Addition, for the New Tempered-Aires

7. Smoke pipe can be attached to either side of machine. Accomplished by manifolding economizer tubes into a header and providing blank cover plate and smoke pipe adapter interchangeable for the two sides.

8. Improved air vanes for operating economizer by-pass for summer air circulation.

9. New tapered filter frames and filters, with heavy retaining loops, eliminate air leaks and greatly facilitate removal of filter bags for cleaning.

10. Blower assembly mounted on four corner rubber cushions eliminates last trace of vibration in duct work. New molded composition belt eliminates motor oscillation.

DISTRIBUTORS
OF
GAR WOOD HEATING AND
AIR CONDITIONING EQUIPMENT

GAR WOOD INDUSTRIES INC.
7924 Riopelle St., DETROIT, MICH.

GLASS

IN THE HOME



HIRES TURNER GLASS COMPANY

PHILADELPHIA · ROCHESTER · ALBANY · BALTIMORE · WASHINGTON

Getting Acquainted—

HIRES TURNER GLASS COMPANY has been active in the flat glass industry as manufacturers, distributors and glaziers for seventy years. Our experienced staff is therefore unsurpassed in its ability to contribute to the lasting satisfaction of the home builder, in the selection of glass for both exterior and interior use.

Our diversified products are sufficiently varied to meet the needs of the most exacting tastes. In this catalog are shown illustrations of the foremost modern types of glass for both use and ornament, required in the home of today. We also supply grades of glass suitable for institutional, commercial and industrial buildings.

The genuineness of the Hires Turner Glass Co.'s product is attested by its trade mark "Light House Brand" affixed to the glass. To be sure of getting the real article, you need only specify that the glass shall bear the "Light House" trade mark label.

Whenever desired, the facilities of the company can be obtained by our clients for the complete installation and glazing of any of its products. Information, sketches, samples and prices can be obtained for the asking from any of our offices and warehouses located at . . .

PHILADELPHIA, PA.
ROCHESTER, N. Y.
WASHINGTON, D. C.
ALBANY, N. Y.
BALTIMORE, MD.



Architectural Mirrors

ARCHITECTURAL MIRRORS . . . A dining room of unusual charm. The tactful use of mirrors offsets the sharp outlines of the delicately carved mantel and adds greatly to the attractiveness of the room. "Light House" architectural mirrors are made in a variety of reflecting media—silver, gold, copper and gun-metal (lead)—and through the skill of our glass engravers can be embellished with exquisite designs of intaglio cutting.

Every "Light House" architectural mirror is an individual production which we manufacture and install to the drawings and specifications of your architect or interior decorator.

Specify "Light House Quality" Mirrors as manufactured by Hires Turner Glass Company.

Hires Turner Glass Company



Structural Glass Tiling

STRUCTURAL GLASS TILING is as enduring as rock, being actually made from melted rock fused at a temperature of 2,600° Fahrenheit with a fire finished surface. This gives a durable, impenetrable material, 11/32 of an inch thick, which has all the surface advantages of glass and much greater durability than ordinary tiling. The color being solid throughout, glass tiling does not stain or discolor, nor is it affected by extremes of temperature or by salt air. It has no surface coating to check or craze and is impervious to all liquids and acids, except hydrofluoric acid. Structural glass tiling is made in beautiful pastel tints, variegated colors, and in plain black and white.

The ancient Venetian glass craftsmen imprisoned their workmen on the famous island of Murano to preserve their trade secrets. Nowadays, structural glass tiling is made in a large open factory where the spectacular melting, pouring, rolling and finishing is done by machinery which almost thinks. Such methods of quantity production bring this gleaming enduring material within the reach of every home owner.

Specify Structural Glass as Supplied and Installed by Hires Turner Glass Company.

Hires Turner Glass Company



IN THE illustration above, the bathroom is given distinction by a wainscoting of structural glass in shining black. The contrast of the white pointed joints relieves the monotony of a solid black and makes more effective its sparkling, flashing surface. As a further contrast, the white cap and base and the white shower walls with black cap and base—all of structural glass—lighten up the ensemble.

On the opposite page is shown a charming bathroom with structural glass walls of a delicate green, with contrasting color in the cap and base. Our installation service insures a wainscoting which will last indefinitely.

Many beautiful colors, solid or variegated, can be supplied to harmonize with any color scheme—such as white, black, jade, orchid and gray.

Specify Structural Glass as Supplied and Installed by Hires Turner Glass Company.

Hires Turner Glass Company



Structural Glass Tiling

STRUCTURAL GLASS TILING for the Kitchen. The use of structural glass tiling transforms any kitchen into a room which is beautiful, durable and perfectly sanitary. Walls and ceiling can be kept clean with a minimum of effort. No scouring or scrubbing is necessary—just run over the surface occasionally with a damp cloth or mop.

Structural glass tiling is applied direct to any solid type of wall. We use a plastic cement that is as enduring as the tiling itself.

Specify Structural Glass as Supplied and Installed by Hires Turner Glass Company.

Hires Turner Glass Company

THE illustration below depicts a kitchen in a large country mansion, with walls and ceiling covered with apple-green structural glass tiling. This soft, restful effect is so different from the usual staring white. The ceiling pieces are not only secured with a binding mastic but also are held at the corners by screws having large rosettes of white metal.

Structural Glass Tiling is adaptable to kitchens of any size. On the opposite page is shown a kitchen for a small house or an apartment. Here a decorative touch is added by the figured border above the green ashlars.

Ivory or white structural glass walls and ceilings are equally pleasing and practical for the kitchen.

Specify Structural Glass as Supplied and Installed by Hires Turner Glass Company.



Hires Turner Glass Company



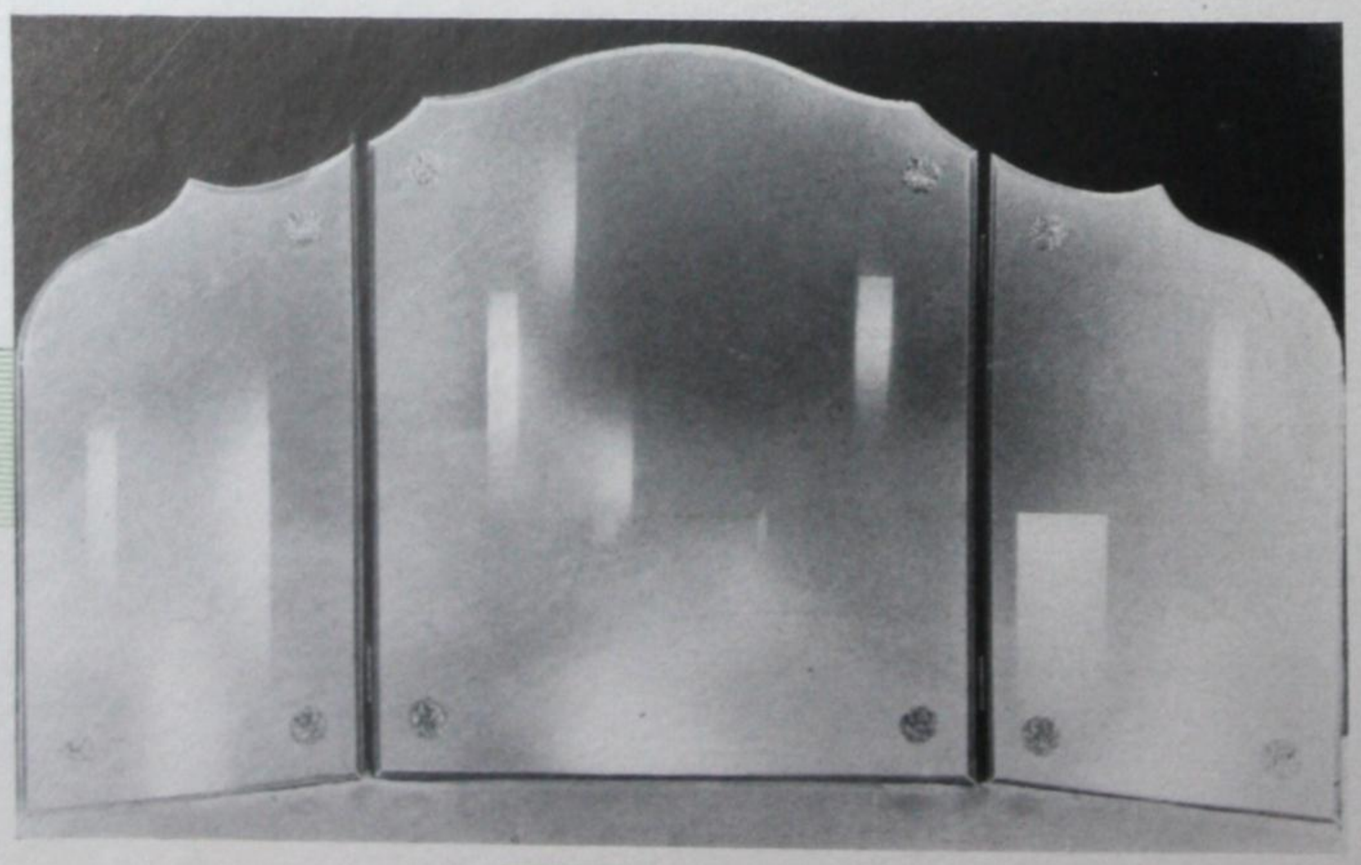


To the left is illustrated our Victor Mirror—made with convex glass of the Girandole type. This construction gives a view of the entire room and is said to have been originally designed so that the hostess could see at a glance that every guest was receiving proper attention. This particular design is an adaptation of the mirror given George Washington by the Continental Congress on his retirement from office.



The mirror on the right is one of the latest designs in circular mirrors. The frame of colored glass ornamented by metal rosettes opens the way to new possibilities in home decoration. Can be obtained in frames of green, light blue, amber, gold, gun-metal and pink—a range of colors which will harmonize with any desired interior color scheme.





A VANITY Dressing Table is an attractive and useful addition to any bedroom. Our Triple Vanity Mirrors are designed in a number of graceful shapes and sizes. They will fit practically any dressing table obtainable in the furniture stores. Each mirror is complete with bevelled polished edges and is mounted on concealed hinges to wood backing. Glass tops for the dressing tables can be made of mirrors with silver, gold, gun metal or blue reflecting media.

Write for literature on our complete line of period and decorative mirrors.

Hires Turner Glass Company



Architectural Mirrors

A QUIET, dignified English interior is here made a livable and picturesque room by the clever way the Interior Decorator has adapted a simple exquisite mirror as a part of the vanity dresser.

Any room can be made to look larger; longer vistas created; and a cheerful brightness added with the use of mirrors.

In the past when the science of mirror manufacturing had not been developed to its present perfected state you were limited to mirrors in ordinary frames. Now you can plan or have designed mirrors of the shape and size to suit your own home. If your decorating motif requires other than plain mirrors they can be skillfully cut with intaglio designs or hand-painted with many interesting results.

Specify "Light House Quality" Mirrors as manufactured by Hires Turner Glass Company.

Hires Turner Glass Company



Vita Glass

VITA GLASS in your windows affords the health-giving properties of the summer sun the whole year round. The ultra-violet rays of sunlight, so necessary for bodily health and vigor, cannot pass through ordinary window glass. To prove this you can sit for hours behind an ordinary window in the full sunshine without acquiring a tan.

A few years ago, however, F. E. Lamplough, Fellow of Trinity College, Cambridge (England), discovered a glass that lets in this ultra-violet energy. It is now available under the name of Vita Glass after being tested and approved by Dr. Walter Eddy of Columbia University, by the American Medical Association and by numerous other scientific and medical authorities in this country and Europe.

The ultra-violet rays, passing freely through Vita Glass, build up the essential Vitamin D in the human system. Even the air you breathe will be purer, for this ultra-violet light destroys harmful bacteria in the atmosphere.

The increasing application of Vita Glass in hospitals and schools and the benefits demonstrated by its use have established the merits of this new product. In city apartments where children obtain but brief periods of open air life, it is now possible to give every room the life-building sunlight of the sparkling out-of-doors.

Hires Turner Glass Company

Air Conditioning and Glass . . . .

A *real need* in air-conditioned homes,

as well as in the ordinary house, is a

Glass *that will reduce the loss in heat*

radiation and limit condensation.

Glass engineers are working on this

problem . . . . It may be successfully

developed by the time you build

. . . . Consult us for information.

AN ENTIRE PAGE IS DEVOTED TO THIS BRIEF ANNOUNCEMENT BECAUSE OF ITS VALUE TO ALL HOMES AND ITS FUNDAMENTAL IMPORTANCE TO AIR-CONDITIONED HOMES.

Hires Turner Glass Company

Glass for Homes Buildings and Automobiles

WINDOW GLASS

We carry complete stocks of flat-drawn window glass with its remarkable flatness and new enduring brilliance. Every light is washed clean, dried and packed in a new clean dust-proof box, ready for instant glazing when it is unpacked.

POLISHED PLATE GLASS

We can supply the finest polished plate glass in all thicknesses from 1/8" to 1 1/2" for every purpose where a clear glass with a highly polished surface is required. Hires Turner 1/8" polished residential glass (labeled) is a favorite with discriminating architects. We also make a feature of plate glass for furniture and table tops.

STORE FRONTS

We furnish and install store fronts, either on architects' specifications or from our own original designs. Our Service Department has helped to modernize many an old store, thus making it a productive piece of property. We are familiar with all the newest types of metal, such as aluminum, stainless steel and bronze. The price of this work is astonishingly low.

WIRE GLASS

This type of glass is standard wherever fire protection is necessary. We can supply it in ribbed or hammered surface, also with the surface so clearly polished that it answers the purpose of ordinary window glass without sacrificing any of its fire-resisting qualities. Endorsed by the National Board of Fire Underwriters' Laboratory.

SAFETY GLASS

We carry in stock Safety Glass which is used by so many automobile manufacturers.

ORNAMENTAL GLASS

We carry in stock a large variety of attractive designs of ornamental glass for partition work and other places where intense, clear lights are to be softened, or privacy obtained.

LENS RIBBED GLASS

This beautiful type of glass is used where real diffusion of light is required, in such places as underneath skylights and under artificial lights in ceilings. It is made with and without wire mesh insertion.

IN THIS CATALOG

A description of the following products will be found in this catalog.

MIRRORS : GLASS FOR AIR-CONDITIONED HOMES
STRUCTURAL GLASS TILING : VITA GLASS

For further information please write to us.

HIRES TURNER GLASS COMPANY
PHILADELPHIA, PA.
ROCHESTER, N. Y. WASHINGTON, D. C. ALBANY, N. Y. BALTIMORE, MD.

Johns-Manville
BUILDING MATERIALS
FOR YOUR NEW HOME



JOHNS-MANVILLE
JM
PRODUCTS



A MESSAGE TO YOU from JOHNS-MANVILLE

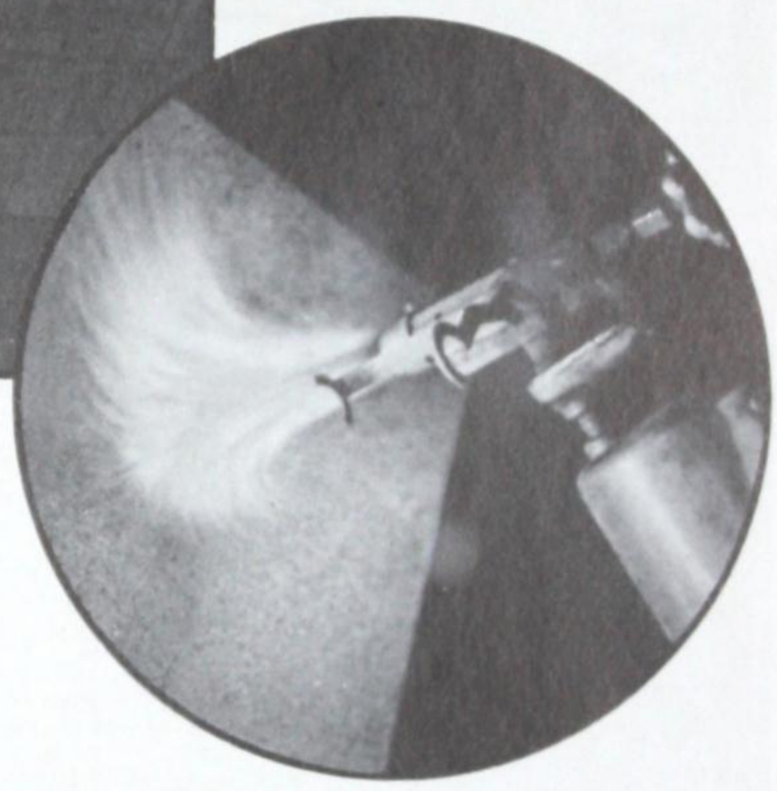
PLEASE accept our sincere congratulations on your decision to build your new home. Now that you are going ahead with your plans, you will wish to give serious thought to every phase of the home you are building.

When you think about your roof; when you think about your kitchen and bathroom; when you consider wall decorations and general comfort; and especially when you consider the cost, we sincerely believe you should know all about the Johns-Manville materials described in this book. Behind these materials stands the authority of a name which for 76 years has been recognized by millions as their assurance of satisfactory performance and service.

Copyright, 1934, by Johns-Manville Corporation



* *In 1926, an old Florida home was being demolished. The sixteen-year old J-M Asbestos Shingles, when removed, were found to be in excellent condition and plans were made to use them on a new building. In order to be absolutely sure that there had been no deterioration, the Southern Testing Laboratories, Inc., of Jacksonville, Florida tested them against new shingles, with astonishing results. Instead of being deteriorated by the long exposure, the old shingles were actually stronger than new ones, and the exposed parts were actually 10% stronger than the parts which had been covered.*



LL THE ROOF YOU BUY
AND THIS AMAZING TEST?

ot even the fury of a blow torch can burn a Johns-Manville Asbestos Shingle...fireproof and permanent.

I the very moment your new home is fin- . it becomes the prey of two dread enemies nd weather. Fire — stealthily waiting to e that proud new home in a swirl of smoke ie. Weather — working day and night, to ear out . . . break through.

vulnerable of all spots is the roof. Statistics at more than 23% of all residential fires roofs that will burn. They show that mil- dollars are spent every year on roofs that . wear out . . . need painting and repairs.



s pass like shadows over a roof of J-M Asbestos Shingles

Not all the insurance you can buy can quench the fatal spark. Not all the vigilance of a thousand eyes can detect the hand of weather at its work. Yet you can remove every roof worry now; — you can roof with Johns-Manville Asbestos Shingles — fireproof, weatherproof, permanent.

The only roof you will ever have to buy!

The experience of thousands of home owners testifies to this statement: *Not one Johns-Manville Asbestos Shingle has ever caught fire — not one has ever worn out. When you roof with J-M Asbestos Shingles, you roof for the last time.*

Made of asbestos fibres and Portland cement, moulded under terrific hydraulic pressure into monolithic slabs, Johns-Manville Asbestos Shingles not only cannot catch fire, but, by laboratory test, actually grow stronger with age!* Here is a roof that will keep your property and your loved ones safe from roof-communicated fire — a roof on which you will never have to spend a penny for maintenance — a roof you can safely forget. A Johns-Manville Asbestos Shingle roof for *your* home will cost only a little more — yet its first cost will be the last.

SEE THE ATTRACTIVE COLORS AND STYLES ON THE FOLLOWING PAGES.

CHOOSE YOUR *fireproof* JOHNS-MANVILLE ASB



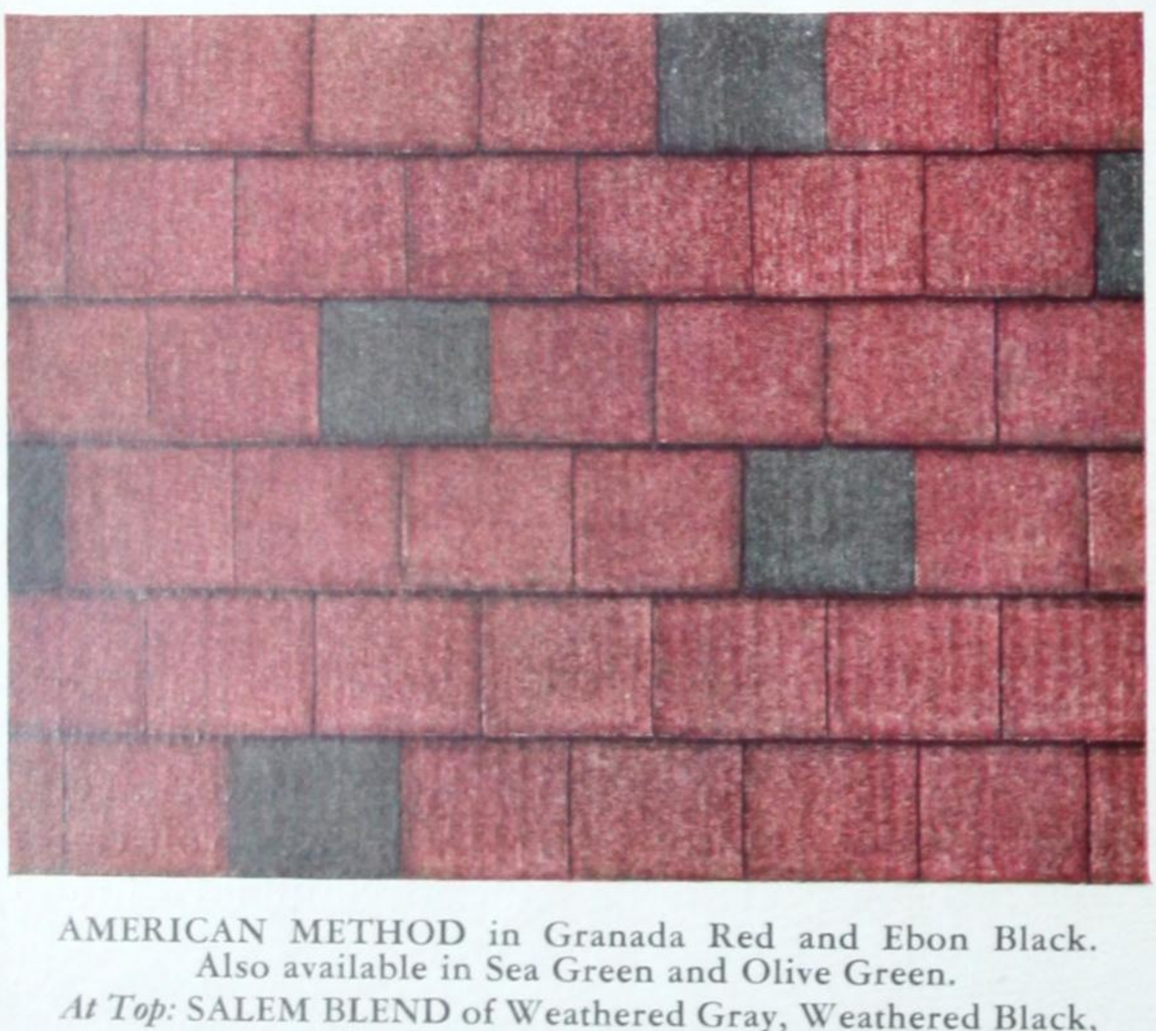
AMERICAN METHOD in Granada Red and Ebon Black. Also available in Sea Green and Olive Green.

At Top: SALEM BLEND of Weathered Gray, Weathered Black, Sea Green and Olive Green.



MOTTLED GRAY in Hexagonal Method. Also av Dutch Lap style.

At top: MOTTLED BLUE-BLACK in Dutch Lap st available in Hexagonal Method.

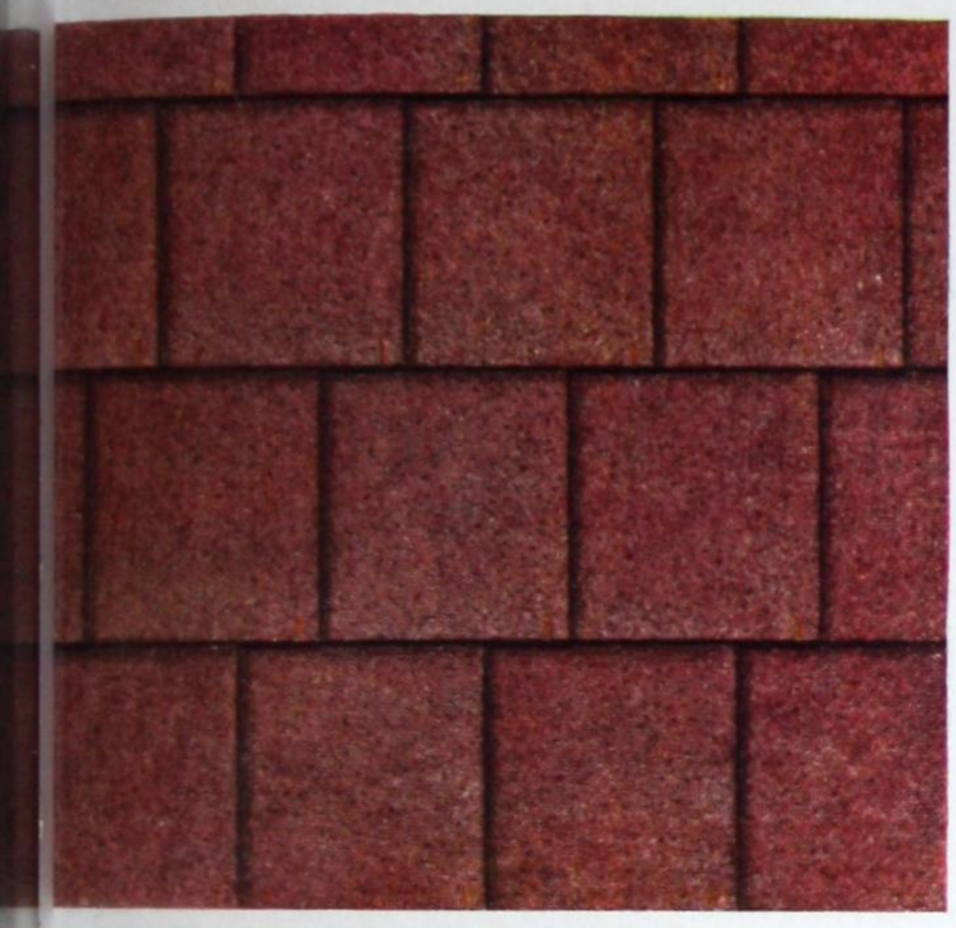


True American Method lines, without doubt the most beautiful of all roof patterns, are found in both the J-M Salem and American Method Shingles.



A Dutch Lap Roof! This is the modern roof. Although the American Method effect, it has a charm and disti found in any other type of shingle.

F *from these* ATTRACTIVE STYLES AND COLORS



.ED RED in Dutch Lap style. Also available in Hexagonal Method.





MOTTLED GREEN in Hexagonal Method. Also available in Dutch Lap style.

At top: COPPER in Dutch Lap style.

●

'HERE on these pages is the Johns- lle Asbestos Shingle roof for your home, ou are building a cozy cottage, a 7-room r a large residence. And whether you deeply textured Salems, the beautiful Method, or the more economical Dutch exagonal styles, you are assured full ville protection; for every style is made e two basic materials — asbestos fibres nd cement. From the attractive colors ages, you can select the roof that best the full charm of your home, or you can own distinctive blend.

LEM and AMERICAN METHOD

itional roof pattern in fireproof materials

ngles bring to the roof all the beauty of heavy-butted hat have undergone years of weathering. So softly old s, so authentic their effect of age, that these fireproof recently chosen to protect the historic old Hancock- it Lexington, Mass.

aditional pattern as Salem Shingles are J-M American les, finely textured and superbly colored in warm and m which individual blends can be made to harmonize y any type of architecture or decorative scheme.

The J-M DUTCH LAP METHOD

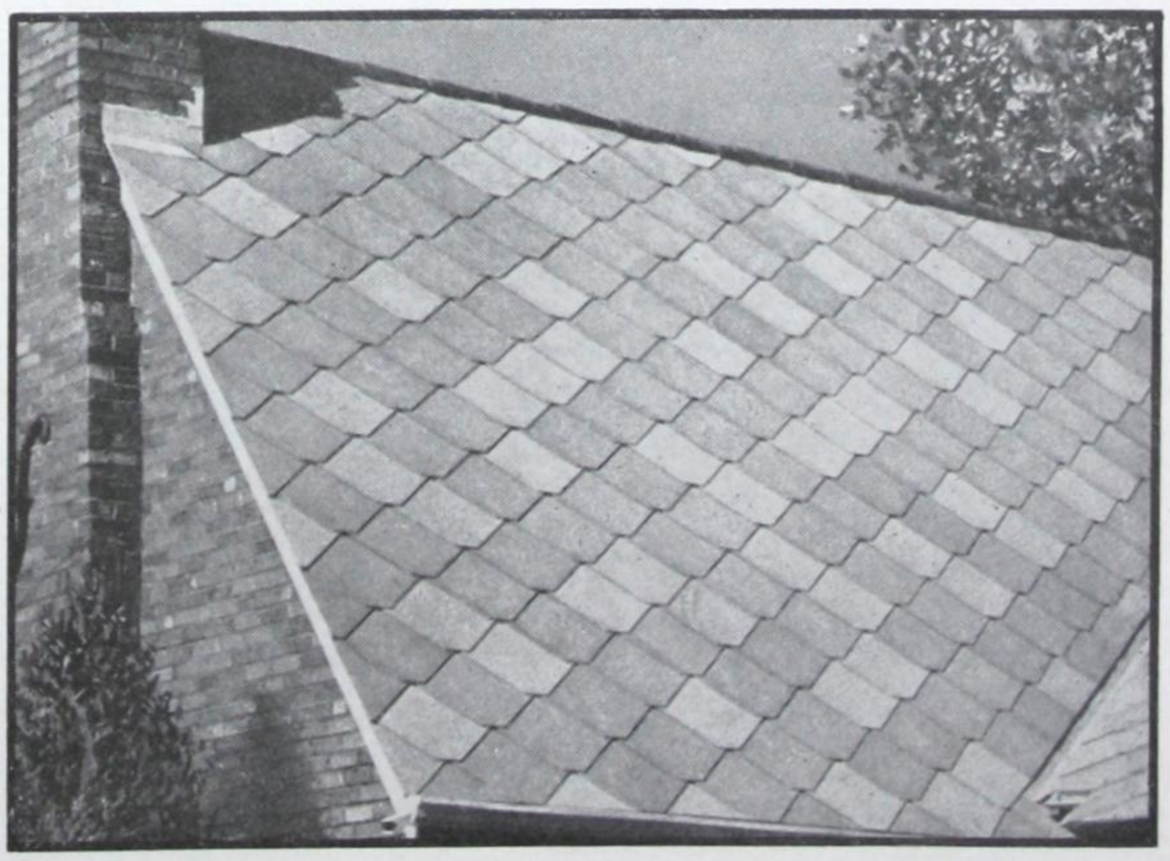
e modern roof—attractive, low in cost

h Lap Method Shingle retains the characteristic hori- rtical lines of the American Method, and imparts a all its own. It is the modern asbestos shingle, designed pattern that will add charm and distinction to any moderate cost.

he J-M HEXAGONAL METHOD

Pleasing pattern, moderate price

al Method Asbestos Shingle has a distinctive pattern popular. Adapted from the famous diagonal design rs ago by the French, this shingle, although attractive esign, is one of the most economical asbestos shingles course, it's fireproof!



The Hexagonal pattern. Because of its pleasing design and great economy, this is one of the most popular asbestos shingle styles ever made.

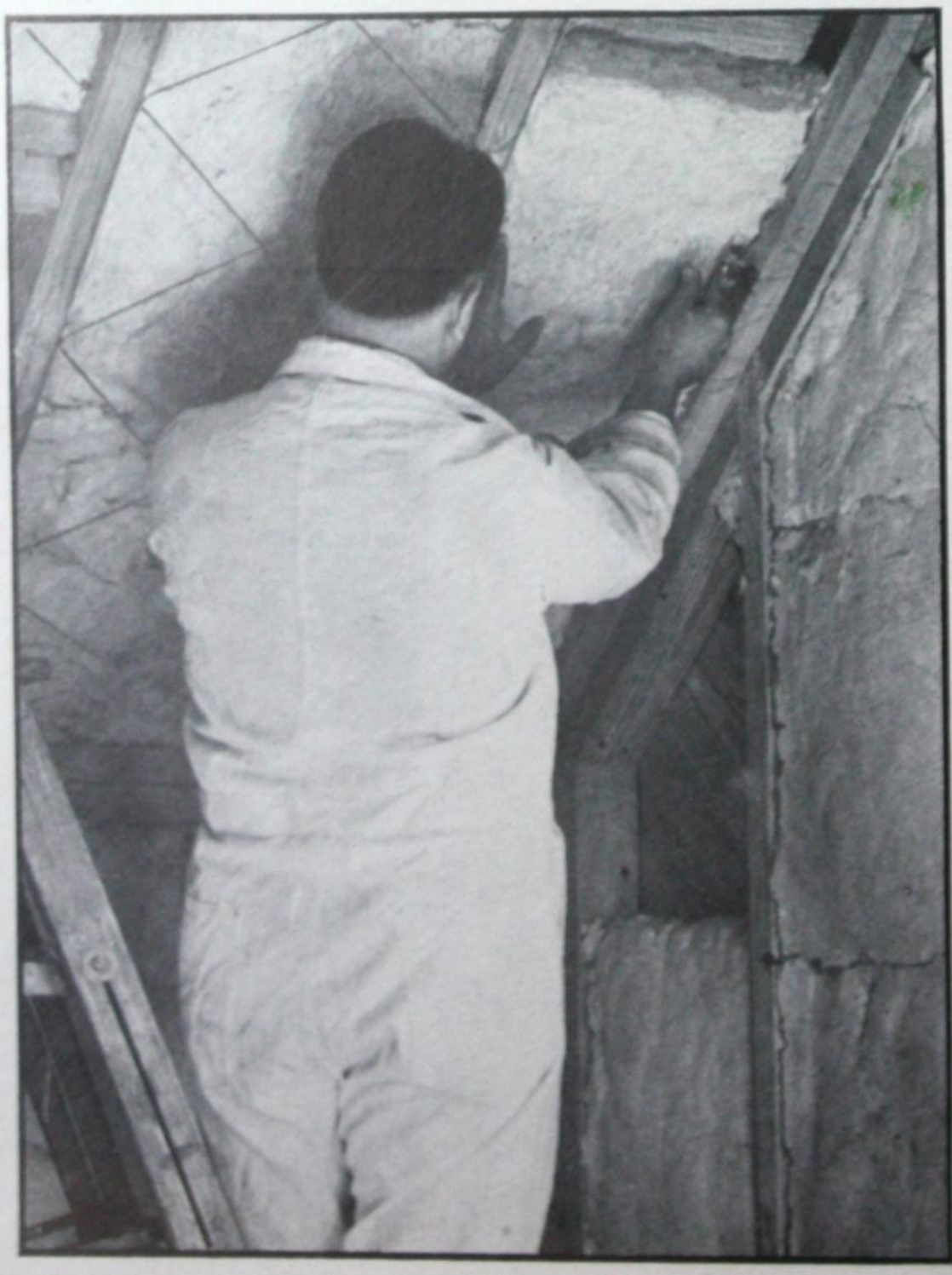
• TO BUILD WITHOUT INSULATING IS

INSULATE—*when you build*—with J-M ROCK WOOL HOME INSULATION

Make your new home easy to heat in winter—up to 15° cooler on the hottest summer days! Save as much as 40% on your fuel bills

YOU are looking forward to many pleasant years in your new home. You want everything to be right, from the start. But unless you *insulate* (and insulate *thoroughly*) you will make the costliest mistake in home building—a mistake that can be corrected later on, but at greater expense to you.

Insulation is one thing you will have to pay for, even if you don't have it. You will pay for it in high fuel bills, many times over. You will pay with rooms that are chilly and drafty in winter. will pay on long, sleepless summer nigh you can't find a cool spot in the house.



Until a few years ago, you could have do ing about these disadvantages. But nc Johns-Manville Rock Wool Home Insulat need never exist in *your* home. Hundrec ters in the J-M files show that homes i with this amazing new material can b *uniformly* on 25% to 40% less fuel. Th that a J-M insulated home is as much as 1 on the hottest summer days . . . that rest comes easily in bedrooms that are blissfu

Your walls are hollow

Look at your blue prints and you will your outside walls are *hollow* . . . that e roof is only a *thin* barrier to the passag and cold. Johns-Manville Insulation E have learned that heat leaks right thr dinary building materials. They discov homes can be adequately protected aga loss only by *filling* the hollow walls an spaces between the attic floor or rafter material that would positively prevent h pouring through.

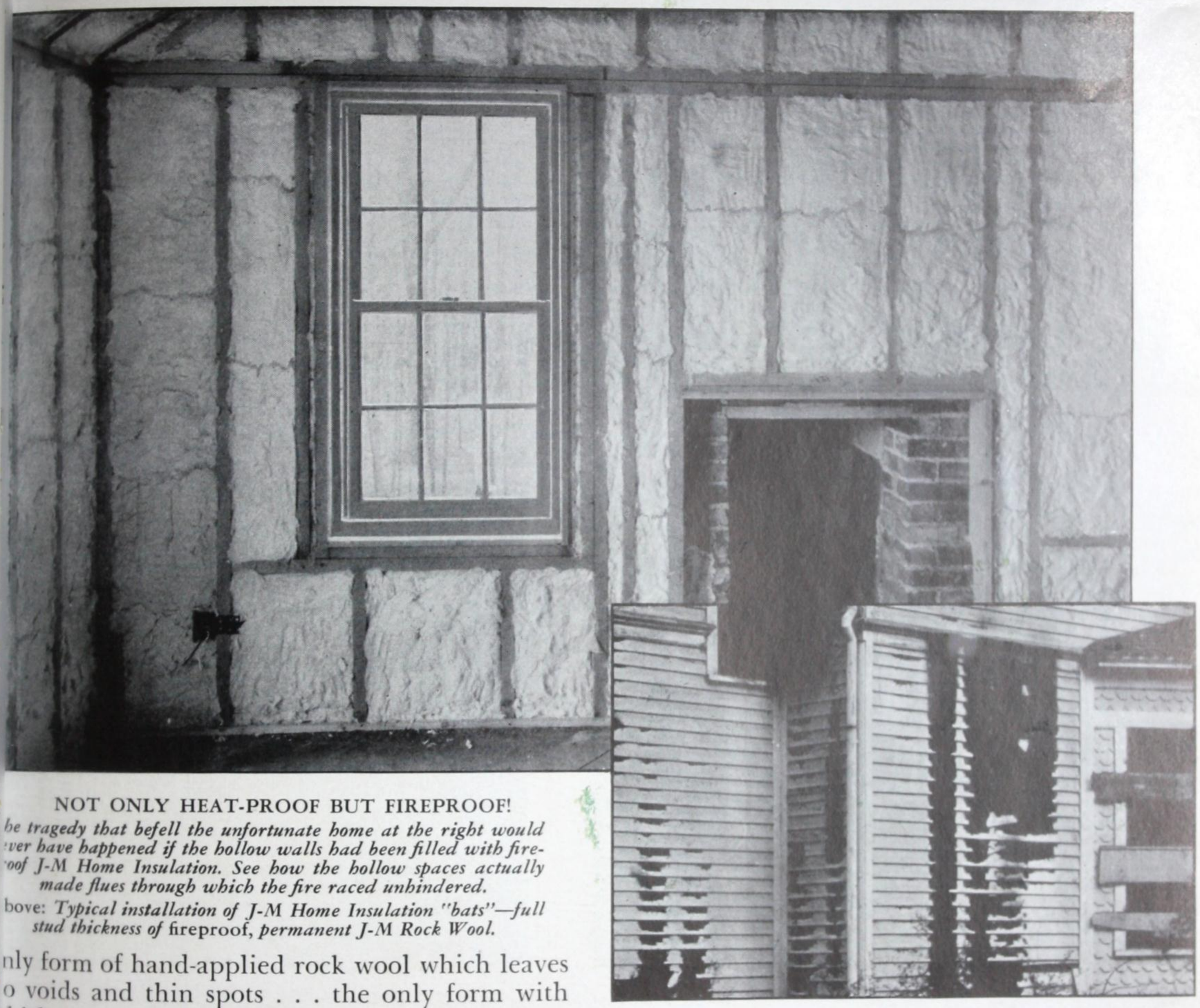
An amazing insulation—a woo blown from rock

They perfected Rock Wool . . . blown fro rock under terrific heat . . . a fireproof, p insulating material astonishing in its Then they felted this new material int of *full stud thickness* and uniform den

YOUR HOUSE HAS HOLLOW WALLS!

Filling those empty spaces in the walls and under the roof will not only save up to 40% in fuel bills, but will also make your home up to 15° cooler on hottest summer days, and at the same time provide a most important safeguard against the calamity of fire.

LIEST MISTAKE OF HOME PLANNING •



NOT ONLY HEAT-PROOF BUT FIREPROOF!

he tragedy that befell the unfortunate home at the right would ver have happened if the hollow walls had been filled with fire-oof J-M Home Insulation. See how the hollow spaces actually made flues through which the fire raced unhindered.

bove: *Typical installation of J-M Home Insulation "bats"—full stud thickness of* fireproof, *permanent J-M Rock Wool.*

nly form of hand-applied rock wool which leaves o voids and thin spots . . . the only form with hich you can be sure that those hollow spaces are ompletely filled from wall to wall, and from top o bottom.

Equal to 11 feet of solid stone

With these J-M "bats," a thick blanket of Rock Wool completely protects your home . . . equal in esistance to the passage of heat and cold to a olid stone wall 11 feet thick . . . amazing protec-ion, yet actually costing less than other types of nsulating materials of the same thickness.

Installed without change in your floor plans

Without special labor or equipment, without he slightest change in your plans, your contractor an install these amazing "bats" at any time before he plaster lath is applied. Now, before it is too ate — avoid the costliest mistake you could make n building your home. Insist that your contractor nstall thick Johns-Manville Home Insulation in our new home!

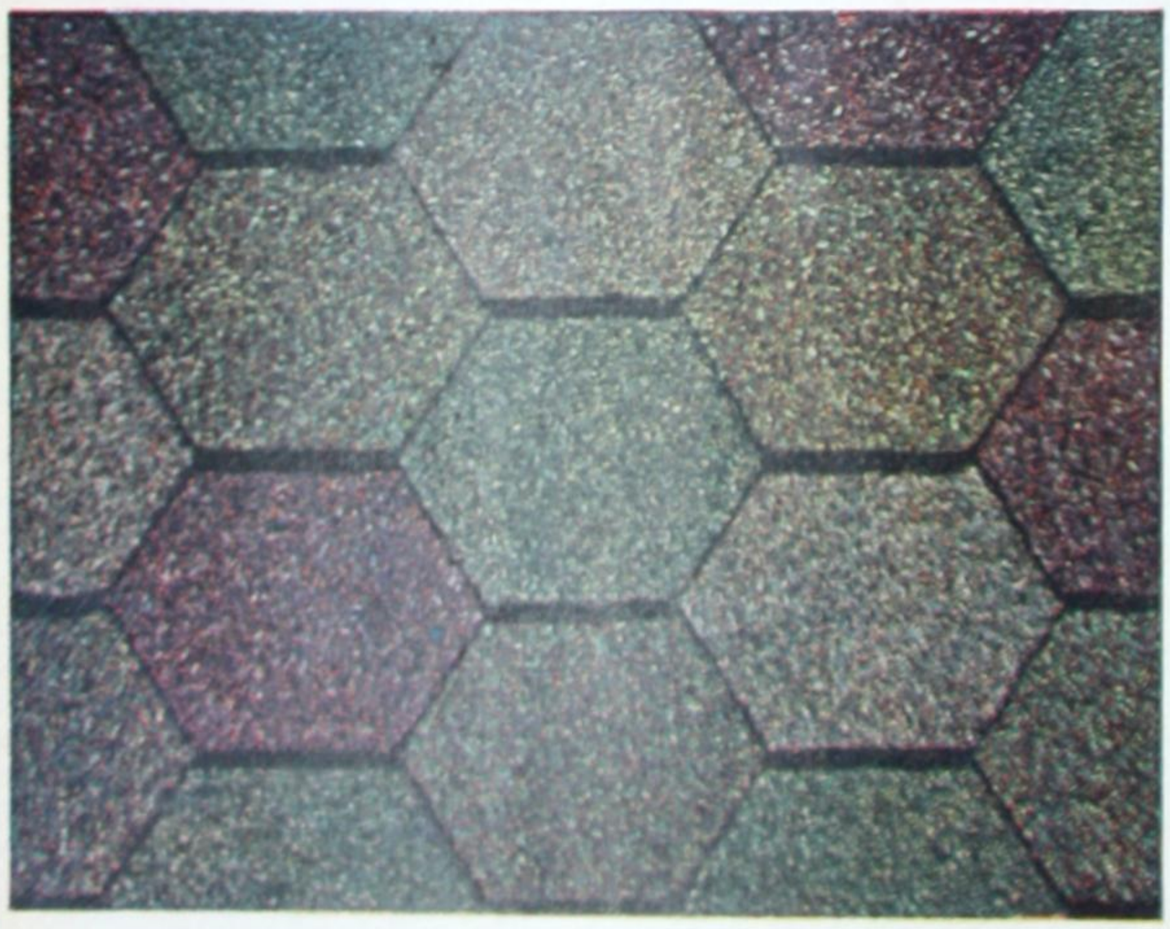
TYPE of INSULATION		Comparative Values
J-M Home Insulation		
Insulating Board	½″	
	1″	
Corkboard	1″	
Insulating Blankets	½″	
	1″	

THREE TO EIGHT TIMES MORE EFFECTIVE THAN OTHER INSULATING MATERIALS

This chart shows the comparative heat resistance of different types of insulating materials in the thicknesses commonly used. Note the remarkable superiority of full-stud thickness J-M Home Insulation when tested against other insulations. Not only does J-M Home Insulation stop heat more effectively, but, unlike most other materials, it is fireproof and permanent.



KILLARNEY GREENS *in Thick-butt style*
An exceedingly attractive blend of soft greens that looks well on practically every type of home.



BLENDED NORMANDY GREENS *in Hexagonal style*
Four shades of green that combine to provide the effect of a roof of variegated slate.



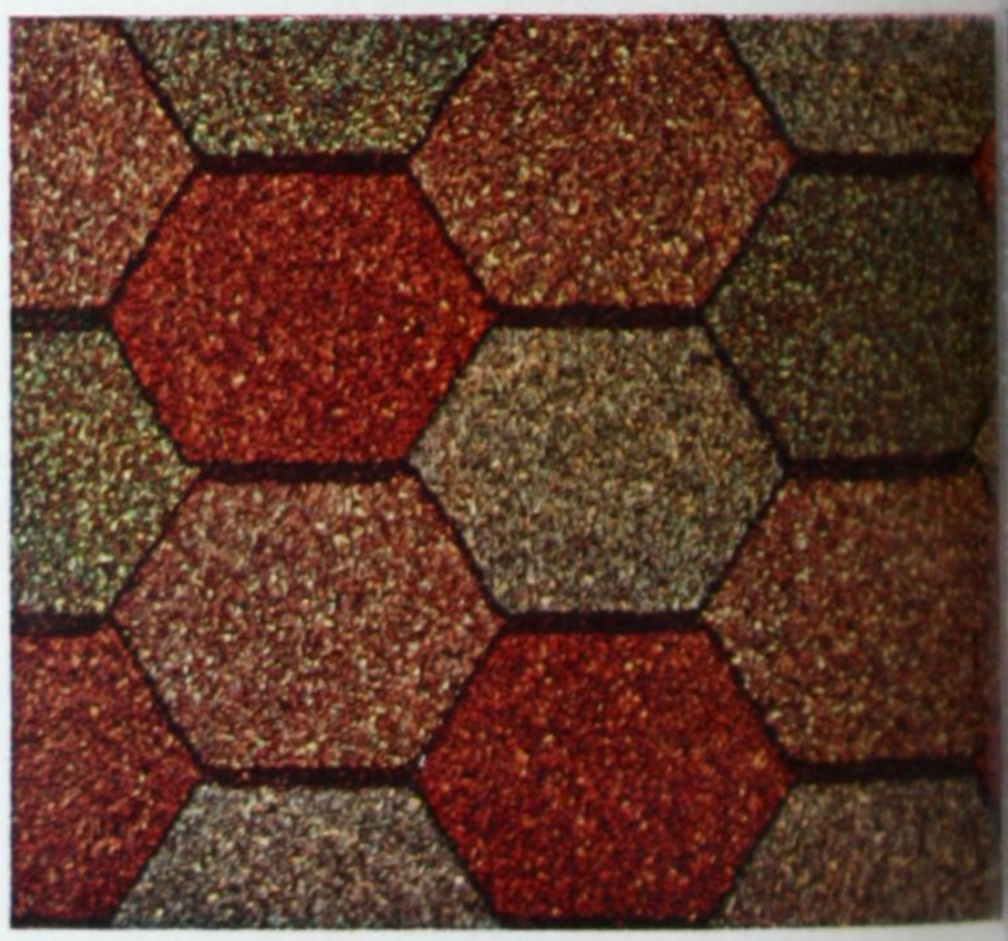
BLENDED ROMANY REDS *in Thick-butt style*
Three shades of bright red blended into an effect of pleasing warmth and color; suitable for many homes.



CHARMAINE GREEN *in Standard Square-butt*
Makes a real green roof; a bright, lively shad



STANDARD RED *in Giant Square-butt style*
A deep, rich tone that is always in great demand; a that has retained its popularity through the yea



BRITTANY BLEND *in Hexagonal style*
Four pleasant, closely-blended shades in a tone that monizes with almost every architectural scheme.

JOHNS-MANVILLE P

Available in a

IF you are considering asphalt shingles fo house, see the Johns-Manville line — in styl colors to suit any home . . . at prices to budget, no matter how modest.

Here you will find the distinctive square-bu hexagonal patterns, which are always in good Here you will find the Thick-butt style, the outstanding development in asphalt shingles, guished by a double coating of asphalt and sl the entire front, back and edges of the exposed

And here you will also find the new Latch T pattern, and the familiar individual style.

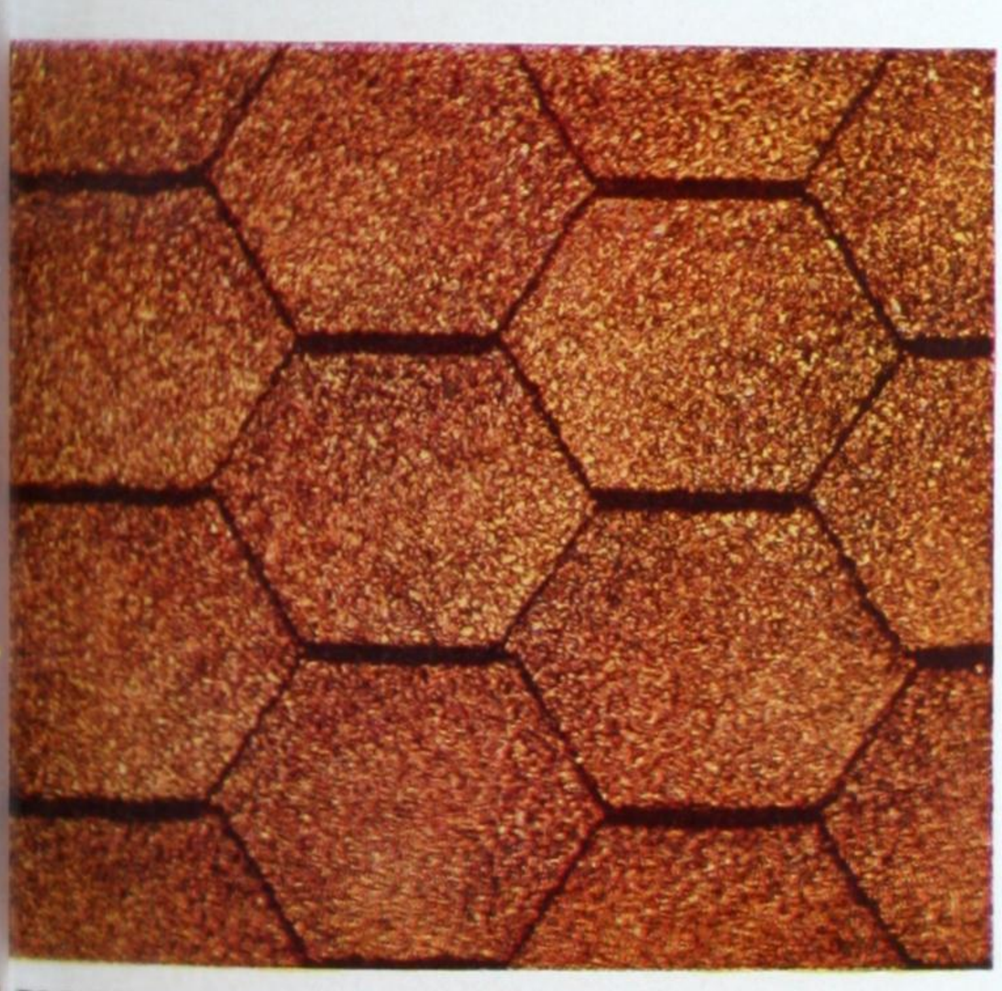
MANY OF THESE COLORS ARE AVAILABL MENT, HOWEVER, CONSULT YOUR JOH



TILE RED *in Standard Square-butt style*
n shade of red that adds life and charm to any home.



BLUE-BLACK *in Giant Square-butt style*
nctive color that gives the home the dignified appearance of a slate roof.



PICARDY DUO-BLEND *in Hexagonal style*
arm brown and yellow tones are particularly well ited to half-timbered and stucco construction.

ASPHALT SHINGLES

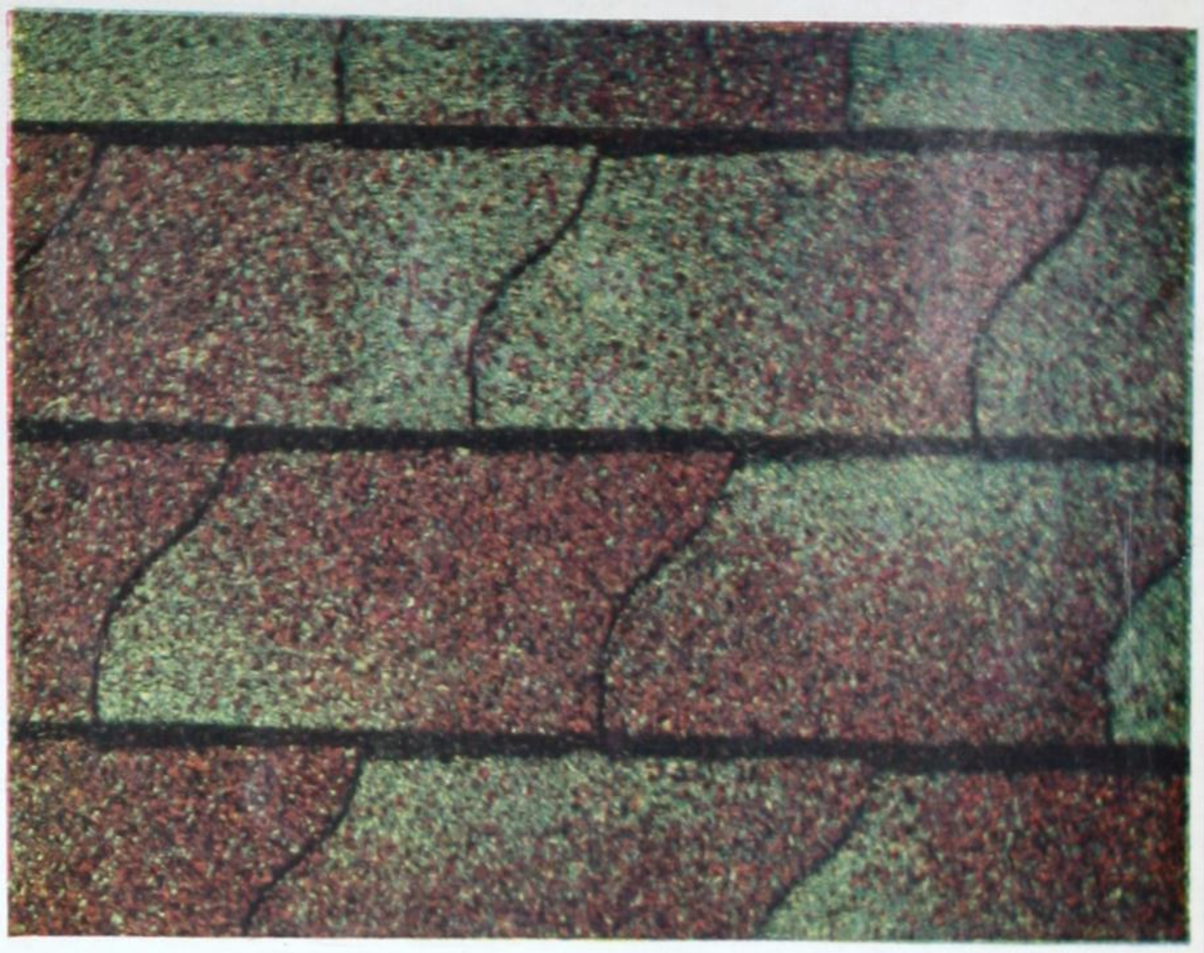
colors and styles

oofs of amazing beauty and design can be y varying the roof lines and blending colors.

of the most important features is the new ine Green, a brighter, livelier shade that the popular demand for a roof that is really his new shade also appears wherever bright used in any of the blends.

ever your type of home — whatever the color of architecture — there is a Johns-Manville Shingle roof to meet all requirements. J-M Shingles cost no more than ordinary asphalt . Ask your J-M dealer to show them to you.

VERY STYLE. TO AVOID DISAPPOINT- BEFORE MAKING FINAL SELECTION.



BURGUNDY DUO-BLEND *in Latch Thatch style*
An attractively contrasted combination of brown, red and green, particularly suitable for small homes.



GASCONY DUO-BLEND *in Hexagonal style*
A green and gray mixture that goes well on many homes, particularly on those with light-colored walls.



GRANADA BLEND *in Thick-butt style*
This attractive blend is composed of three colors taken from the J-M Brittany Blend, always in wide demand.



After the framework is up, the sheathing is applied. Here is a home already sheathed with strong, economical J-M Insulating Board.

Specify this better sheathing— J-M INSULATING BOARD

By actual test, stronger than wood sheathing. Costs ⅔ less to apply. Insulates!

YOUR HOME DESERVES SHEATHING THAT RESISTS FIRE!

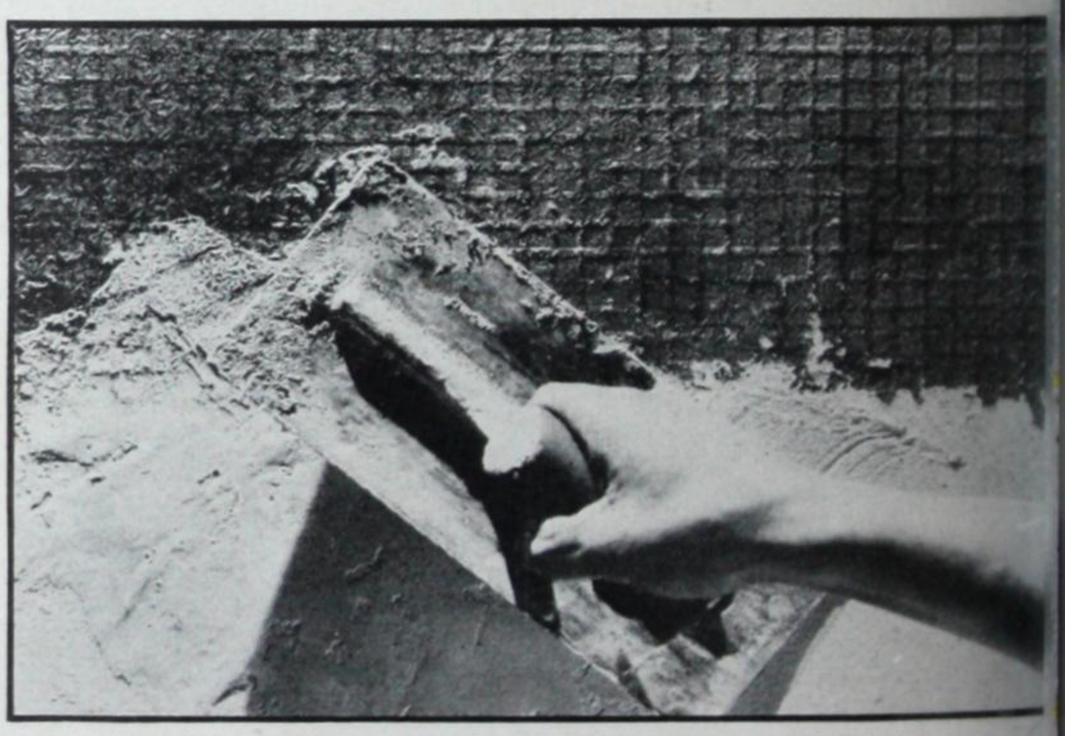
At slight extra cost, J-M Insulating Board is available treated to resist fire. Tests, using an air-gas blast burner at 1700° F, reveal that Insulating Board so treated does not constitute a fire hazard, for although it will char under intense heat it positively will not promote combustion. This same fire-retarding treatment can also be obtained in J-M Insulating Lath, described on this page.

FEW people think about sheathing because they can't see it after the house is finished. That is a mistake.

Next to the framework, it is the chief structural member of your house; it must be strong. Laboratory tests show that J-M Insulating Board, because of its great strength is unsurpassed for sheathing use. Its fibres, running in every direction make it more resistant to distortion than the best wood sheathing.

In addition, J-M Insulating Board saves you money. This amazing wood fibre board is a large unit, four feet wide, that covers 30 or more square feet per sheet. Experienced builders say that they can sheathe a home in *one-third* the time with these large sheets. Here's a substantial saving you should insist on. Use the money you save for some coveted "extra" you felt you would have to do without.

J-M Insulating Board *insulates,* too; saves fuel and keeps you cooler in summer, in the bargain! Insist on J-M Insulating Board as the sheathing for your new home.



Will your plaster walls be cracke and unsightly a little while after you build?

J-M Insulating Lath will prevent this — and save you money now and in the future

DON'T let your pleasure in your new home be marred by cracked plaster and dirt-streaked ceilings — defects which are often found where plaster is applied over wood lath.

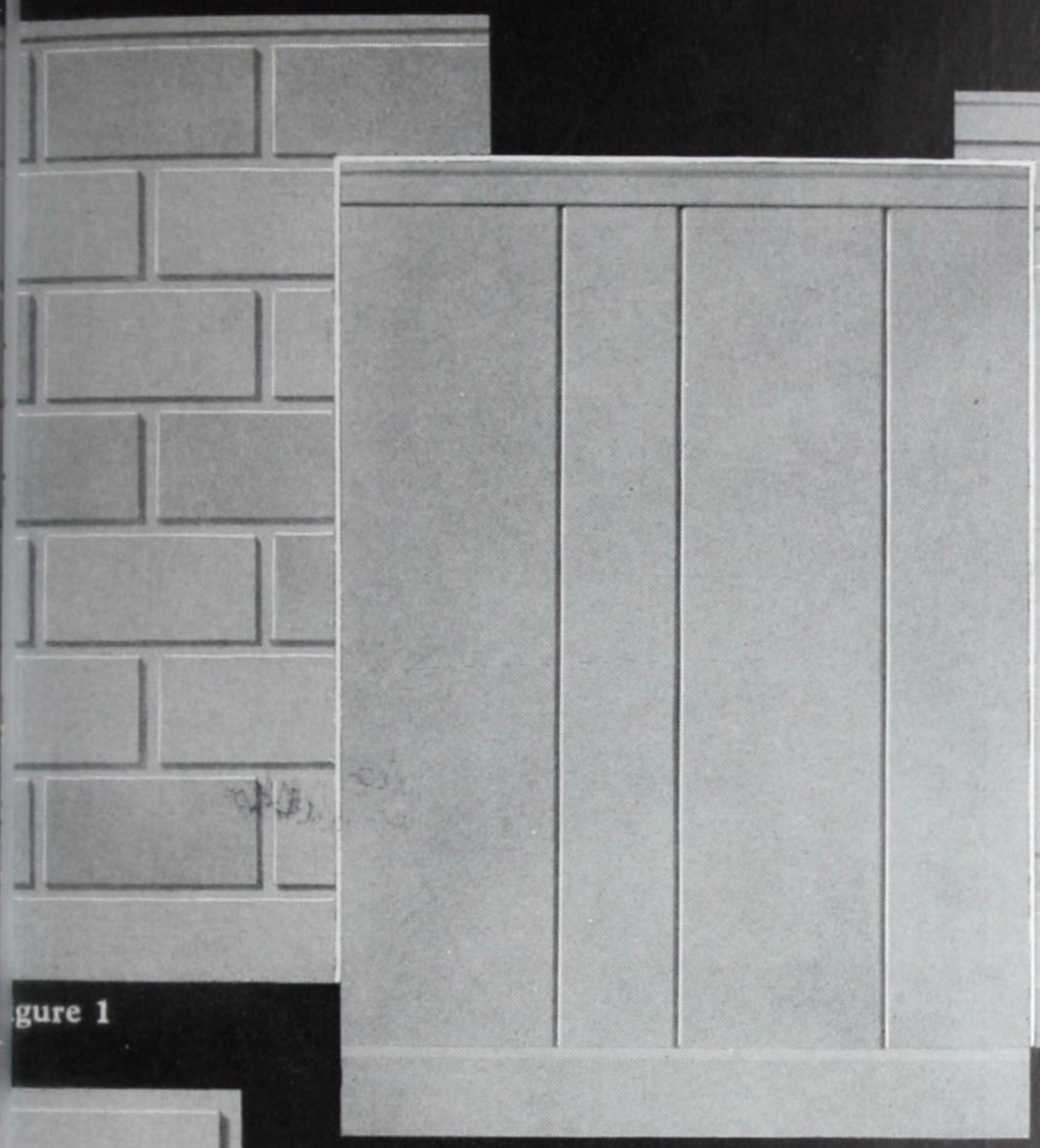
Johns-Manville Insulating Lath, used as a plaster base, reduces cracking to the very minimum. It is the same as Insulating Board, in sheets 18" x 48" in size, with a "gridded" surface that has a bond with plaster far stronger than plaster with wood lath. There will be no unsightly lath marks, either, when J-M Insulating Lath is on your *ceiling.*

J-M Insulating Lath will save you money, too, because it takes *less* material and less time. Ask your J-M dealer about it!



This is the back of a with plaster on wood l Judge for yourself much more economical to use J-M Insulating L as the plaster base!

OSE YOUR WALL *and* CEILING TREATMENTS THESE NEW, DECORATIVE J-M MATERIALS



gure 1

Figure 2



Figure 3

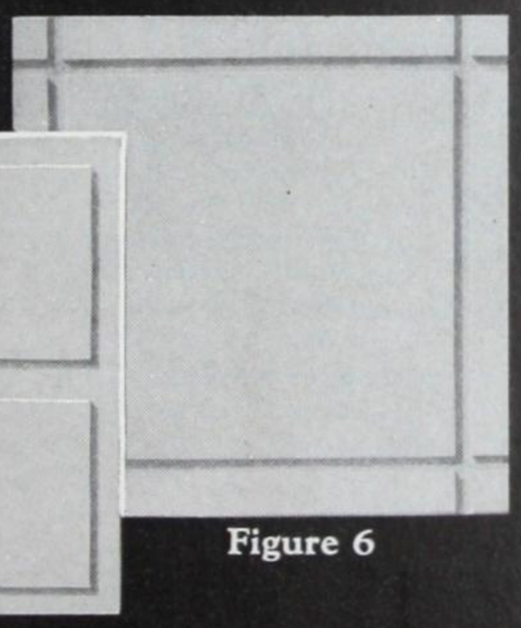


Figure 6

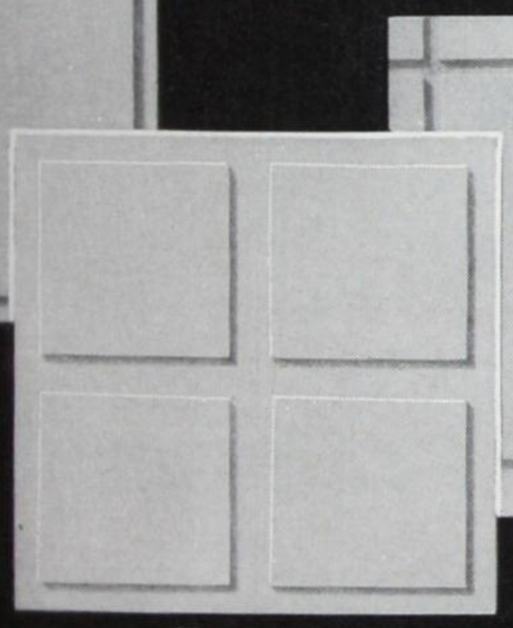


Figure 5



Figure 7



Figure 8



Figure 9

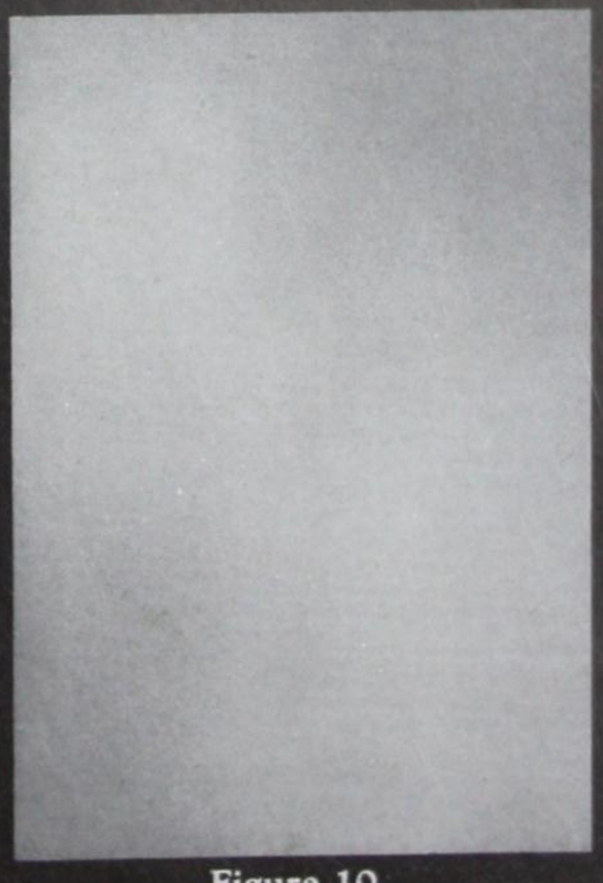


Figure 10

Figure 1

J-M ASHLAR STRIPS and BEVEL BOARD

The pattern illustrated can be obtained with both J-M Ashlar Strips and J-M Bevel Board.

J-M Ashlar Strips are decorative strips of Insulating Boardin labor-saving 4-foot lengths. J-M Bevel Board is individual Insulating Board Tile in a variety of sizes, from which additional patterns can also be made.

Figure 2

J-M BEVEL PLANK

Random-width, beveled planks of sanded Insulating Board in natural buff—one of the most popular modern wall treatments.

Figure 3

J-M WAINSCOTING PANELS

Pre-designed, ready-to-apply units of Insulating Board for economical, paneled wainscoting effects.

Figures 4, 5 and 6

J-M DECORATIVE BOARD TILE

Designs C-1, C-2 and C-3

Ceiling Tile of Insulating Board, in units 2 feet square to reduce application costs.

Figure 7

J-M HARD BOARD

A stronger, harder wood fibre board in lovely brown and tan tones. *{Decorative panel illustrated made entirely of Hard Board.}*

Figures 8, 9 and 10

J-M ASBESTOS WAINSCOTING

An asbestos-cement sheet wall material with a "baked-on" finish in a variety of attractive designs and colors.

(8)
Marbleized

(9)
Tile Design

(10)
Color Panels

TE INFORMATION ABOUT THESE NEW FINISHES IS GIVEN ON THE FOLLOWING PAGES.

Finish your kitchen, bathroom and laundry with this economical asbestos-cement sheet "tile"...

J-M ASBESTOS WAINSCOTING

{Tile Design}

OF course, you're planning on a tiled kitchen and bathroom. But first see your J-M dealer. He may be able to save you money with J-M Asbestos Wainscoting in colorful tile designs. Made of 32 x 50¾-inch sheets of asbestos and cement, then surfaced with Vinylite — tough, colorful and wear-resisting — J-M Tile Design Wainscoting will impress you with its economy and beauty. You'll find it so delightful that you'll want it in your laundry, too.

It takes a carpenter just a little while to install these large sheets in place — to complete as pretty a room as you ever dreamed of. Irregularities and fittings offer no problem.

Ask to see the lustrous colors as they really are — Ivory, White, Light Blue and Light Green — with a delicate soft gray score mark, and cap and base in black. And — very important — inquire about the new low costs, made possible because cap, base and sheet are now made *all in one piece!*

Tile design J-M Wainscoting is ideal for bathroom, shower stall, lavatory, kitchen and laundry. And *now* you can afford to have it wherever you wish.



From the range of colors in the line of J-M Tile Design Asbestos W coting, it is easy to select a wall color in complete harmony wi color of your fixtures. Here J-M Light Green Wainscoting is sho combination with orchid.

VERDE ANTIQUE

•

BRECHE ROSE

•

JAUNE FLEURI

•

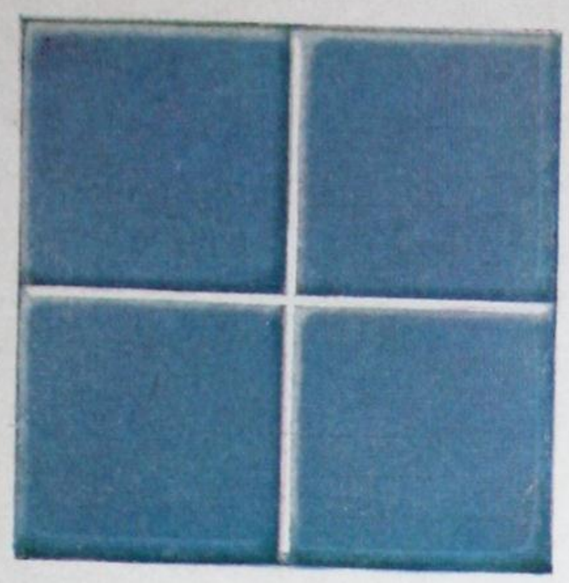
BLACK & GOLD







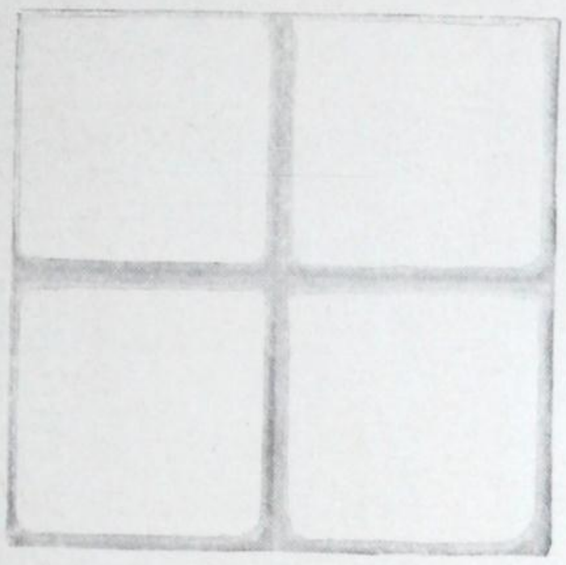
Light Green



Light Blue



Ivory



White



With the latest development in its Asbestos Wainscoting—a new combination sheet which unites cap, base and tile into a single piece—Johns-Manville cuts application costs to the very minimum.

No cement work, no costly, time-consuming setting of small pieces are necessary with J-M Asbestos Wainscoting; just a few large sheets, quickly applied with ordinary tools. A quarter-round moulding along the floor gives an added finish to the job.

Amazing Johns-Manville development brings beauty of genuine marble to average homes!

•

JOHNS-MANVILLE
Marbleized
ASBESTOS WAINSCOTING

WHO ever would have thought that some day the average home builder could afford to decorate his bathroom in "marble"! Thanks to Johns-Manville, that day is *here,* in time for you to give your bathroom the kind of finish that many prefer but until now few could afford.

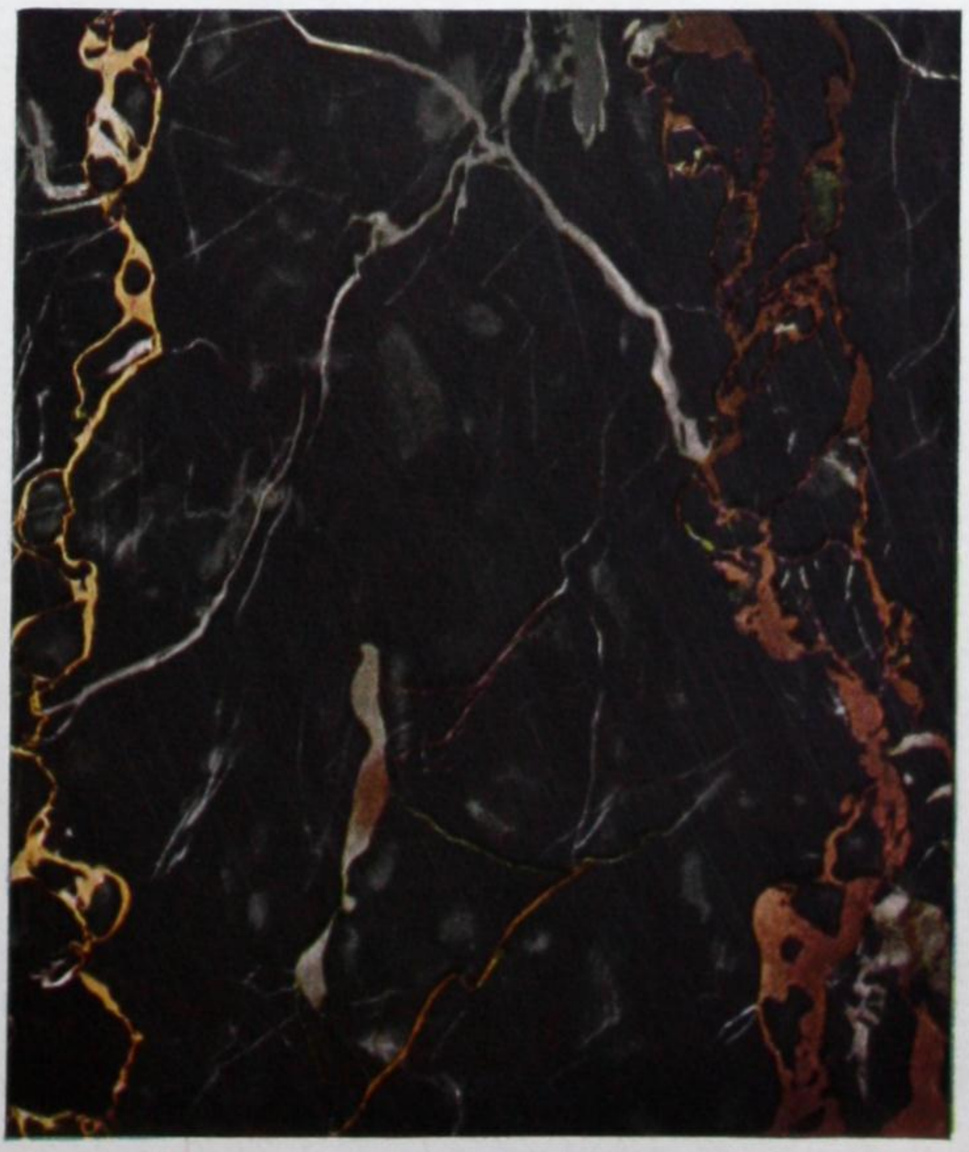
Marble stamps any home as ahead of the times. You'll get a real *thrill* out of showing your guests the smart bathroom, with chromium and porcelain fixtures against the walls of Johns-Manville Marbleized Asbestos Wainscoting. You can have any one of the four designs illustrated below —Verde Antique, Breche Rose, Jaune Fleuri, Black & Gold—every one so authentically reproduced that it is almost impossible to distinguish the Wainscoting from the marble, itself.

Your contractor can easily apply this beautiful finish

Just like real marble, J-M Marbleized Asbestos Wainscoting comes in large sheets, ready to be fastened in place with chromium plated screws. There's a special base for the bottom of the sheet, and a cap for the top. Or you can have the Wainscoting to the ceiling, as in the shower stall.

If you want something *different,* specify Johns-Manville *Marbleized* Asbestos Wainscoting.





•

Color Panels

If you prefer simplicity you will be interested in J-MColorPanels, which are sheets of color without the tile design, and with cap and base separate.

•

INTERIOR FINISHING

Simplifie

with J-M Decorative Insu Board and Hard Board Pro



Figure 1

MODERN DINING ROOM

This gay little dining room is entirely constructed of J-M Insulating Board. The ceiling is sky blue; the walls old pink; and the scallops salmon. Joints between sheets are beveled.



Figure 2

EARLY AMERICAN LIVING ROOM

Entirely Colonial in feeling, yet achieved with modern Insulating Board, painted a cream color. Furnishings are in prune, green, yellow and black.



Figure 3

ITALIAN LIVING ROOM

Natural Insulating Board, stenciled in brown. Beams in walnut, with Insulating Board panels in jade green.

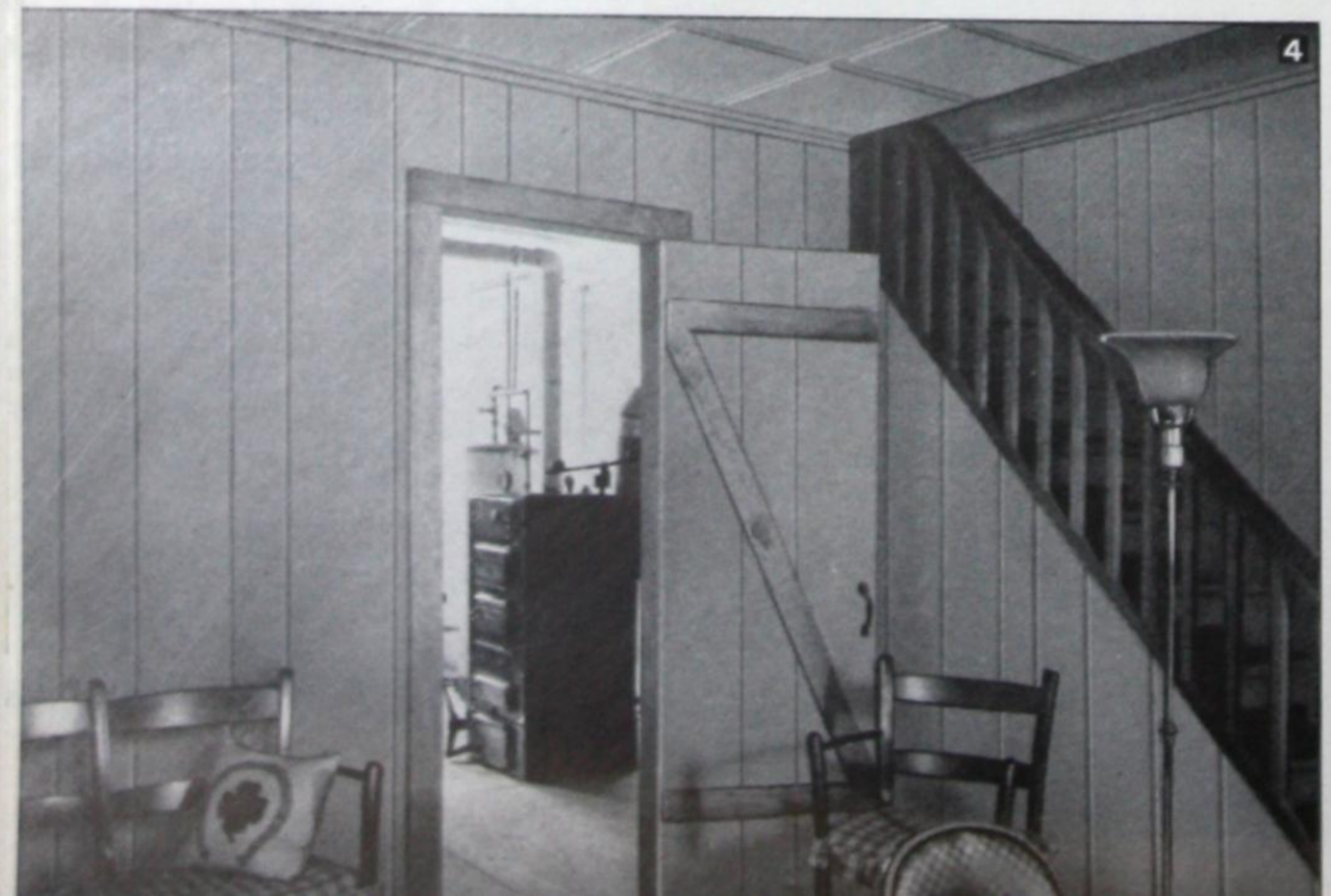


Figure 4

COZY GAME ROOM

A feature you are sure to want. It will cost less to do it when you build. This charming effect is obtained with the new J-M Bevel Plank in random widths.

"DON'T BE IN A HURRY TO DECORATE experienced decorators and archi you want to avoid expense later on, be *Wait at least a year* before you paint or give the plaster time to dry thoroughly." first months are just the time when yo most anxious to have your home *complet* for guests to admire.

Now Johns-Manville entirely removes plexing problem — and with a new line c finishes makes it possible for you to h home *complete,* the very day you move

You can have practically any wa treatment *at once* . . . no waitin

Why wait months for plaster to dry can have a beautiful interior finish actua on *in place of plaster?* Why undergo mon patient waiting when you can have pane wainscoted walls, painted walls or stai *at once* by this amazingly simple metho

Johns-Manville has taken its Insulatin strong, rigid, pleasingly colored — and h it to interior decorative purposes. It can its natural finish; or painted or stained, Just look at photographs 1, 2 and 3. homes which not only are sheathed wi markable wood fibre material, but w walls of this same board in every room ever see more attractive and charmin Will *your* rooms look as inviting as th the first guests ring the door bell? *They* next to each picture, just how this cle builder decorated with Insulating Boar

You are even more fortunate in build time, for you can take advantage of t developments in this field, perfected Manville only a short while ago — a n decorative finishes — Bevel Plank, W Panels, Ashlar Strips, Bevel Board, Pa and Decorative Ceiling Tile, detailed which are shown on page 11.

* *J-M PanLboard is Insulating Board compresse thickness, which makes it harder and even m*

ı your walls with J-M Bevel Plank

thought how distinctive your living ld be if it had random width planks : fireplace or on all the walls? Or a plank g, combined with neatly paneled walls ns-Manville Bevel Plank and Insulating l give you just the effect you want, in a hat can be painted or stained at once, *lastering.*

ı on a basement recreation room!

se you will want to have a recreation the basement. There's nothing more or this kind of room than walls of J-M nk with a harmonizing ceiling of J-M e Tile or PanLboard. If you want color, the walls and ceiling to suit. You'll see a e with Bevel Plank in Fig. 4. Note the J-M Decorative Board Tile.

And an extra room in the attic!

to have an extra room finished off in your 'll be thankful for it many times. It's out y, and therefore needn't be pretentious n a smart-looking modern room costs but J-M Insulating Board. There's a good for such a room in Figure 5. If the ıe house wants a study, or the children ay room, something like Figure 6 may basis to work from.

rchitect, builder or J-M dealer will be ive you even more specific suggestions ees the plans for your new home.

•

rich, decorative effects -M HARD BOARD and [PERED HARD BOARD

, wainscoting, dadoes and panels; for helves, cabinets, book cases; for modern , chairs, bars and built-in features—

E will be many places in your home e only a hard, tough, strong material like d Board or Tempered Hard Board will are wood fibre sheets that are so strong be used for lining concrete forms — yet ıtive in color and finish that you will be use them wherever possible. They are a and brown in color, with a burled finish y surface that go well with all J-M Deco-sulating Board products.

our Johns-Manville Dealer to show you and to explain how really little it will ıclude those fascinating things that stamp ne as modern — up-to-date.

Figure 5

MODERN ATTIC BEDROOM

The walls of J-M Insulating Board are entirely in keeping with the simplicity of the modern furnishings.

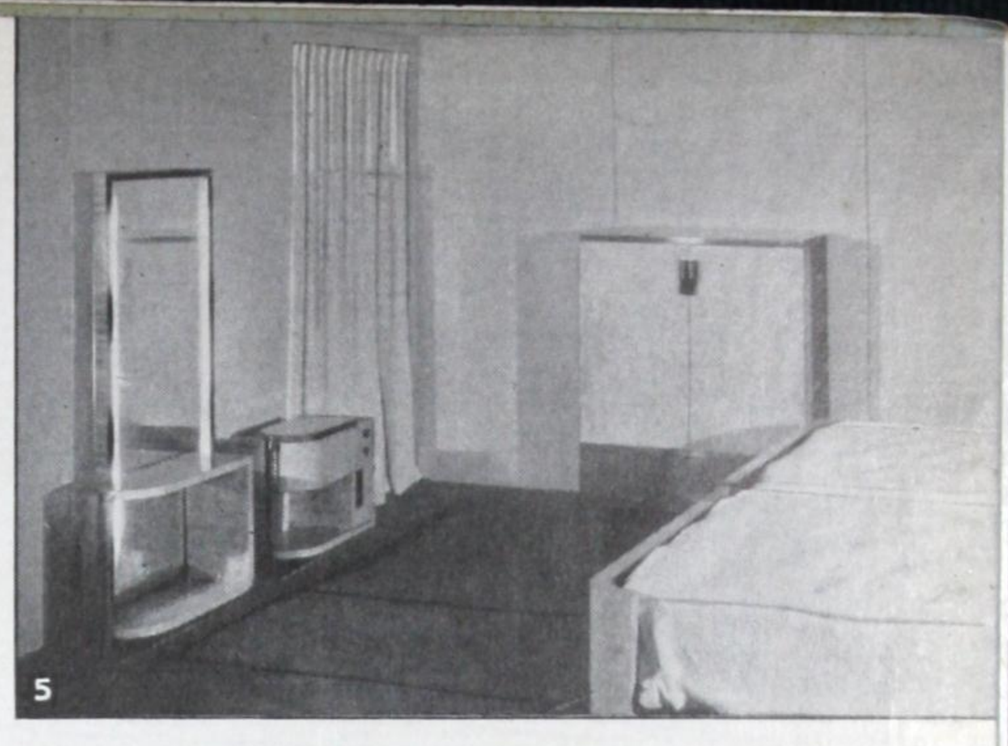


Figure 6

CHARMING ATTIC STUDY

Constructed at only slightly additional cost, this snug little retreat adds immeasurably to the livability of the home. Walls and ceiling of J-M Insulating Board, paneled with Hard Board.

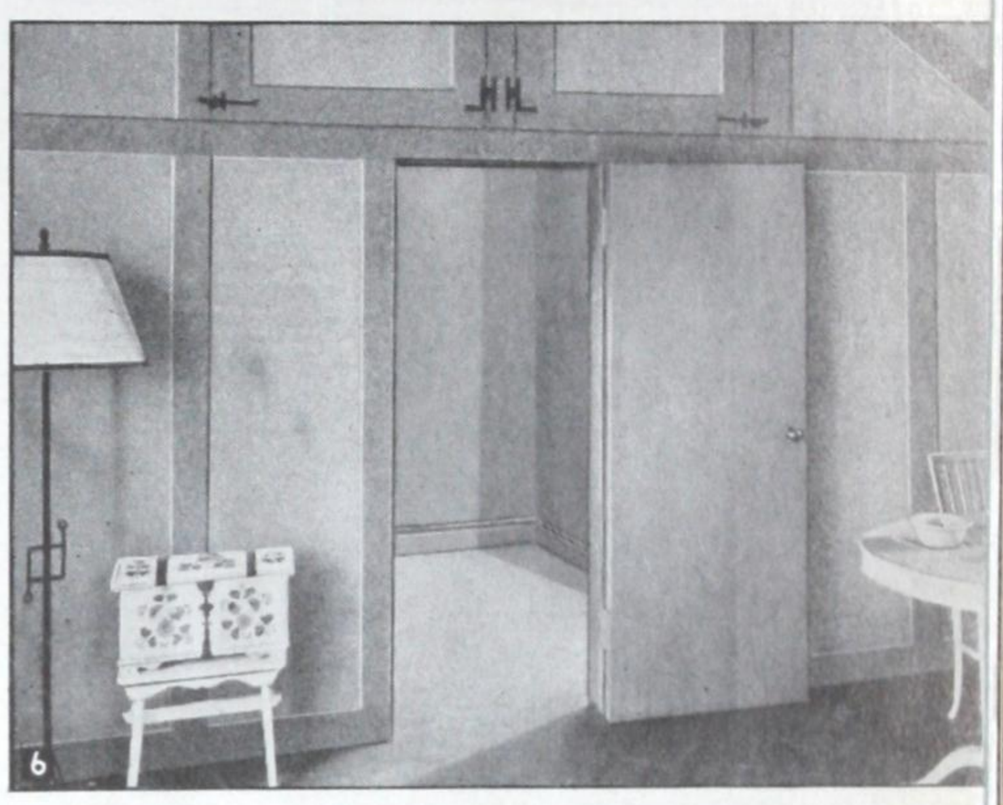


Figure 7

RICHLY PANELED

This remarkable effect was obtained by paneling sheets of J-M Insulating Board with J-M Batten Strips and then applying walnut stain.



Figure 8

J-M HARD BOARD

Here J-M Hard Board is shown used for the shelving and for the baseboard; two uses which display its beauty and utility to good advantage.

OTHER IMPORTANT POINTS WHERE JOHNS-MANVILLE PRODUCTS WILL HELP YOU TO BUILD A BETTER HOME

YOUR FLOORS: Wherever you want a decorative floor, specify Johns-Manville Asphalt Tile Flooring—resilient, colorful, long wearing—in a wide variety of solid and marbleized colors. For soundproofing between floors, specify J-M Deadening Felt.

YOUR FURNACE ROOM: Reduce the hazard of fire by enclosing your heating plant in a room whose walls and ceiling are lined with J-M Asbestos Flexboard, the new and economical Johns-Manville fireproof sheet in an attractive buff color.

YOUR GARAGE: Protect your car from the freezing cold by lining your garage with Johns-Manville Insulating Board. Fireproof your garage, too, with sheets of J-M Asbestos Flexboard.

YOUR HEATING AND PLUMBING SYSTEMS: Cover your heating plant and every foot of pipe in your home with the proper type of insulation. Johns-Manville—leading authority on insulation—manufactures a complete line of insulating materials for every home purpose.

FLAT OR LOW-PITCHED ROOFS: For roofs on which shingles cannot be applied, specify J-M Ready-to-lay Roofing.

In addition, Johns-Manville also has a complete line of accessory items such as sheathing papers, roof putties, roof coatings and waterproofing materials, each made to J-M standards of quality, established through 76 years of manufacturing experience.

JOHNS-MANVILLE
JM
PRODUCTS

JOHNS-MANVILLE

Executive Offices: 22 EAST FORTIETH STREET, NEW YORK

AKRON
ALBANY
ATLANTA
BALTIMORE
BIRMINGHAM
BOSTON
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KERNERATOR

REG. U.S. PAT. OFF.

INCINERATION

Garbage and Waste Disposal
for New and Existing Buildings



KERNER INCINERATOR COMPANY
MILWAUKEE
WISCONSIN

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Mifflin.
Milwaukee: Kerner Incinerator Co., 3707 N. Richards



The Sanitary Elimination of Garbage and Household Waste



KERNERATOR
REG U.S. PAT. OFF.
INCINERATION

Garbage and Waste Disposal for New and Existing Buildings

KERNER INCINERATOR COMPANY
MIIWAUKEE, - - WISCONSIN

Branches in all Principal Cities

A. I. A. File No. 35J41

The Chimney-fed Kernerator

For New Homes. Also Existing Homes
With Suitable Chimney-Flue In or Near the Kitchen.

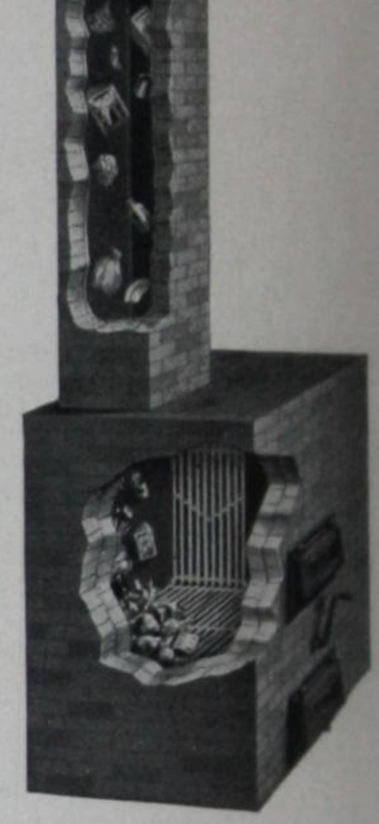


THE *Kernerator* provides a sanitary and efficient solution of the problem of garbage and waste disposal. It destroys by burning, all garbage and waste, in the home where it is created. It requires *no gas or other commercial fuel* — the discarded combustible waste is the only fuel needed.

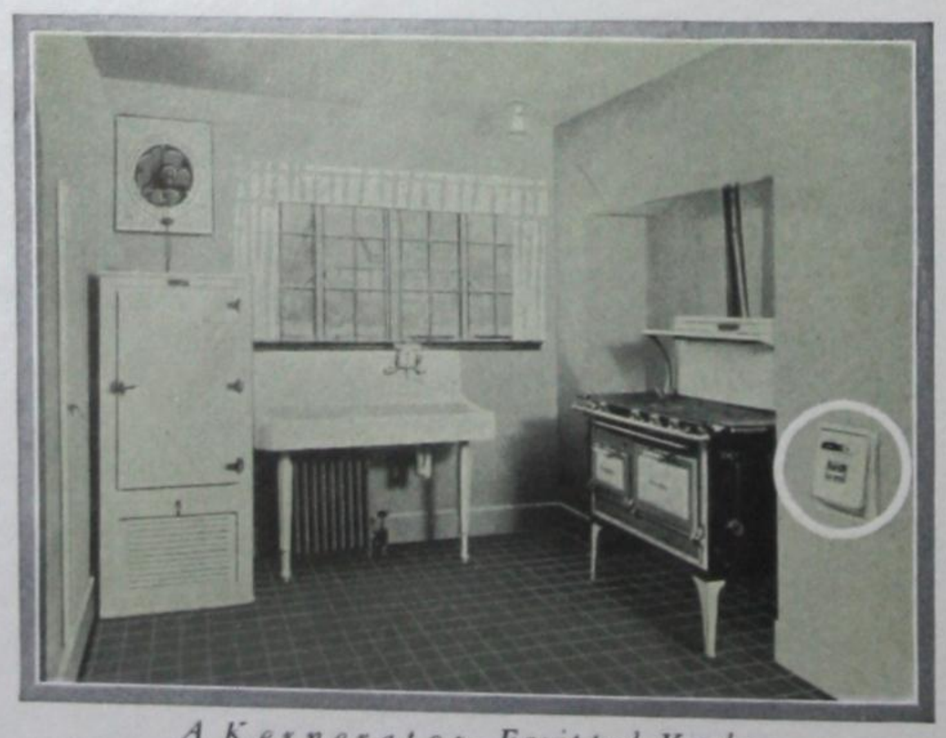
The *Kernerator* eliminates forever the unsightly, insanitary and inconvenient garbage cans and rubbish piles, and the disagreeable features of garbage and rubbish collections. It lightens the work of the housewife by saving the constant trips to these out-of-date nuisances. It means clean yards, neat back porches and basements. It contributes very largely to the cleanliness of the home and the living comfort of its occupants.

In homes without this convenience, the handling and disposal of garbage is a disagreeable task on which housewives waste both time and energy. The garbage cans used, attract flies, mosquitoes and vermin, are fertile breeding places for disease germs, and an ever present menace to health. The accumulation of rubbish and trash in the cellars and yards is a dangerous fire hazard. Only by destroying the garbage and waste on the spot, in the home where it is created, will garbage cans and rubbish piles, with their attendant evils, be banished.

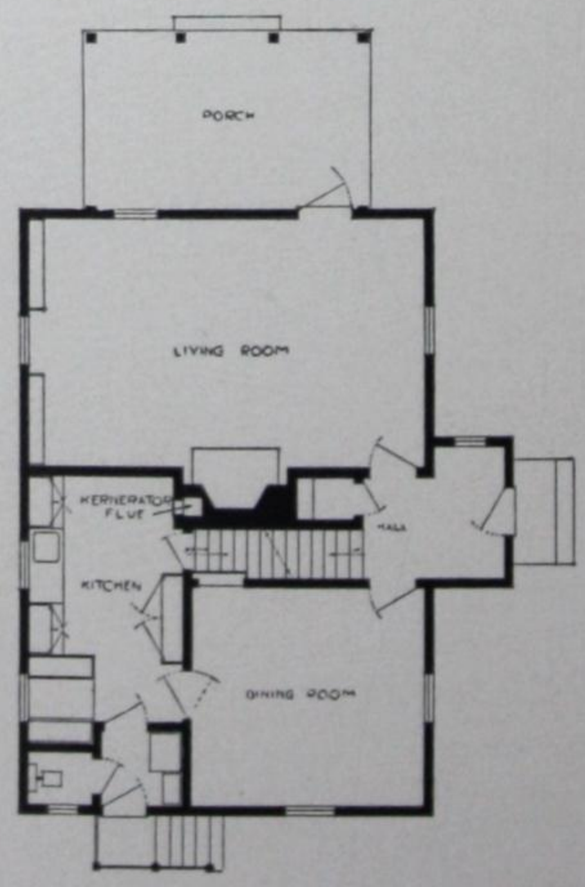
The Chimney-fed *Kernerator*, being a built-in unit, should be provided for in the plans of a new home, when a suitable chimney flue in or near the kitchen can be provided for. Where but one receiving hopper door is used on the first floor, the inside flue dimensions must be at least 12 x 12″. If an additional hopper door is also installed on the second floor, then the inside flue dimensions should be 16 x 16″. In an existing home the installation of the Chimney-fed *Kernerator*, with the convenient hopper door on the first floor, can generally be made, if there is a flue 12 x 12″ inside dimensions, located in or near the kitchen, or if provision can be made for one. The Basement-fed *Kernerator* for homes already built is referred to on next page.



General View of Chimney-fed Kernerator with Hopper Door in the Kitchen. A Feature Highly Prized by Every Housewife.



A Kernerator - Equipped Kitchen showing convenient Hopper Door



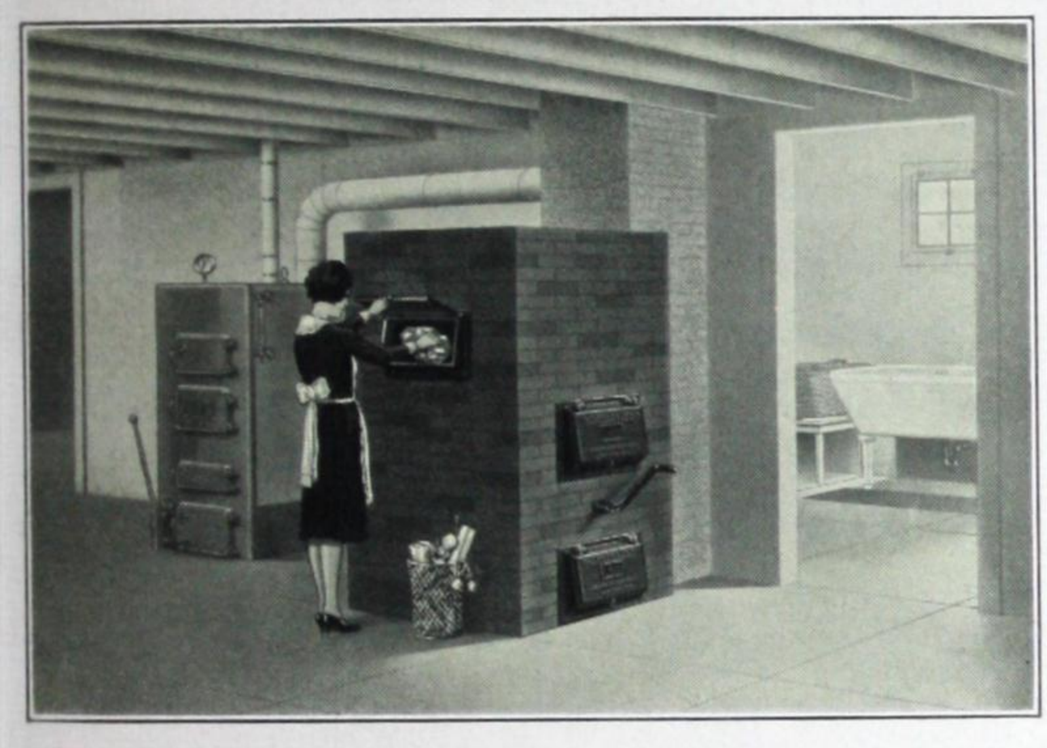
At the left is shown first floor plan of a *Kernerator - Equipped* residence. Right in the kitchen is the *Kernerator* flue with the handy hopper door. All garbage waste and trash of all kinds is out of the way in a jiffy—drops to the brick combustion chamber in the basement where an occasional match burns the air-dried accumulation without odor.

KERNERATOR
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INCINERATION

The Basement-fed Kernerator

For Homes Already Built—Also New Homes Where Chimney-fed Kernerator Cannot be Used.

FOR many years the convenience and advantages of the *Kernerator* have generally been limited to *new* homes where a flue of suitable size was provided in or near the kitchen to take the Chimney-fed *Kernerator.* Nothing else can compare with the convenience of the handy hopper door in or near the kitchen, into which all waste can be dropped as rapidly as it accumulates.



Basement of a Residence Showing Kernerator Basement-fed Incinerator built against Regular Chimney.

But there are thousands of homes already built — also new homes being planned, with no suitable flue in or near the kitchen for the Chimney-fed *Kernerator.* In these homes the Basement-fed *Kernerator* can rid the premises of the garbage can with its menace to health, and the dangerous fire hazard of rubbish accumulations in basements, attics, or yards, accountable for about 75% of the fires in homes.

The illustration opposite shows the Basement-fed *Kernerator* in a home where it has been possible to build it right against the regular chimney. Where this cannot be done, the incinerator chamber can be located at some other point in the basement (as near to the regular chimney as convenient) and connected to the chimney by piping. The Basement-fed *Kernerator,* like the Chimney-fed type, provides a large holding capacity (about 6 bushels on the small Model R, illustrated, for small residences) to take not only garbage and combustible waste, *but all rubbish and non-combustibles, like tin cans, bottles, etc., as well*—and which nothing less in size can conveniently handle. It also has the Patented By-pass Flue and vertical grate described on Page 7 which assures complete, successful and odorless combustion of garbage and waste. The installation is the same as the Chimney-fed *Kernerator* with the exception that the waste is deposited through a feeding door in the upper part of the brick combustion chamber, at a height convenient for the dropping of all waste.

Kernerator Banishes These Conditions



and this

Stop the disagreeable trips through rain and snow to the garbage can. End forever this nuisance and breeding place for flies, mosquitoes, rats and other germ carriers.



and this

Stop this menace to the children's health. Provide a clean back yard or neat back porch where they can play without obnoxious, sickly odors and the danger of disease from detestable garbage cans.



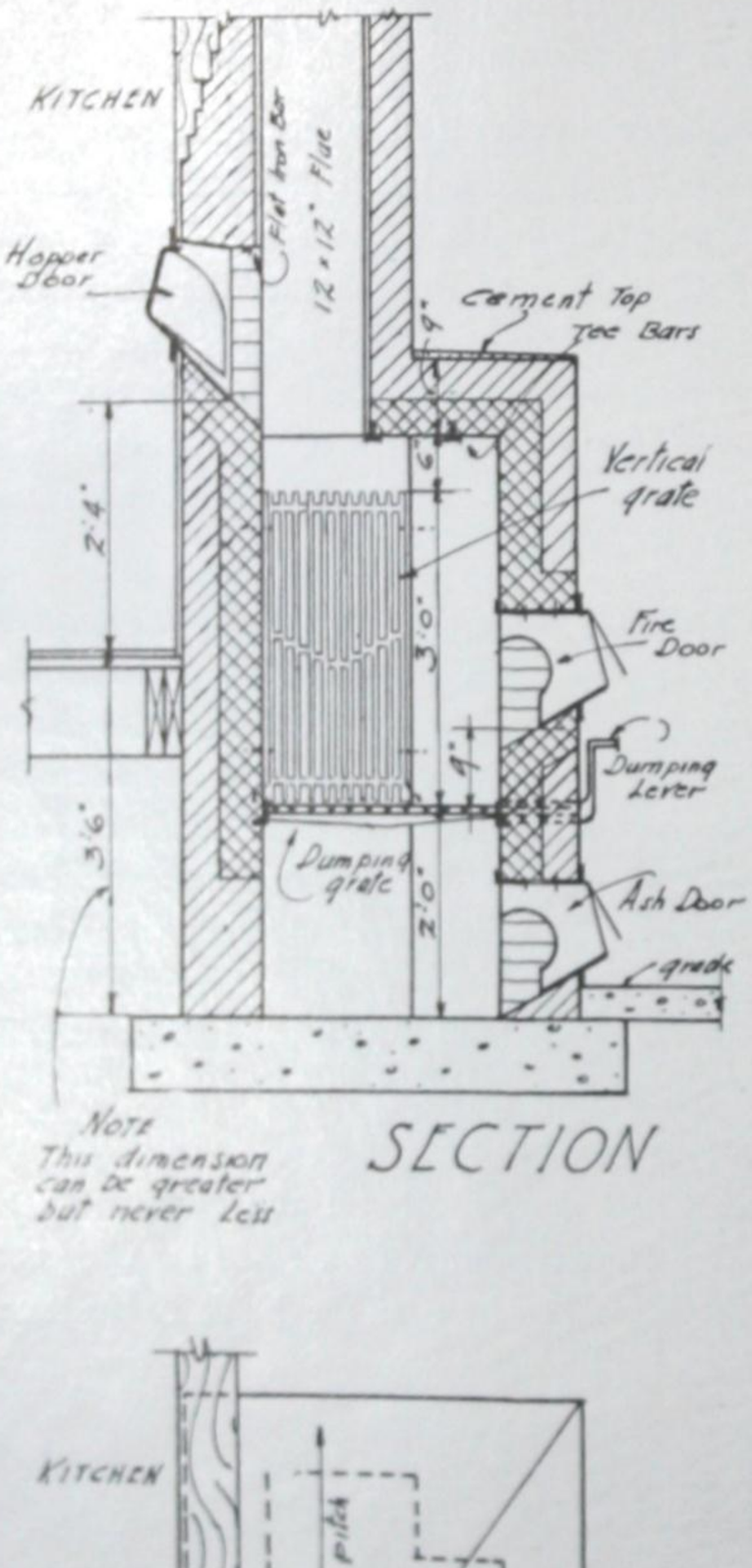
and this

No more garbage hounds scattering bones and midnight lunches around the yard. No more dangerous fire hazards from barrels of papers, rags and other inflammable accumulations in the basement.



No more days of worry waiting for the garbage collectors who may be a few days late or on a strike. No more cleaning up of filthy messes after the garbage man's calls.

NOTE — Where the distance from grade to 1st floor level is less than shown on this drawing, a concrete pit in front of the Incinerator is required.



The Chimney-fed Kernerator Built on the Outside of Residences

ORDINARILY, where there is a basement in the residence, the *Kernerator* is located in the basement, but where there is no basement, or where other conditions require it, the incinerator can be built against the outside of the building, with the hopper door located inside the building in or near the kitchen.

Thus, with the exception of the location of the combustion chamber, the installation is identical with the Chimney-fed *Kernerator* described on page 2.

An installation of this type is shown in the photograph below and the detail drawing opposite.

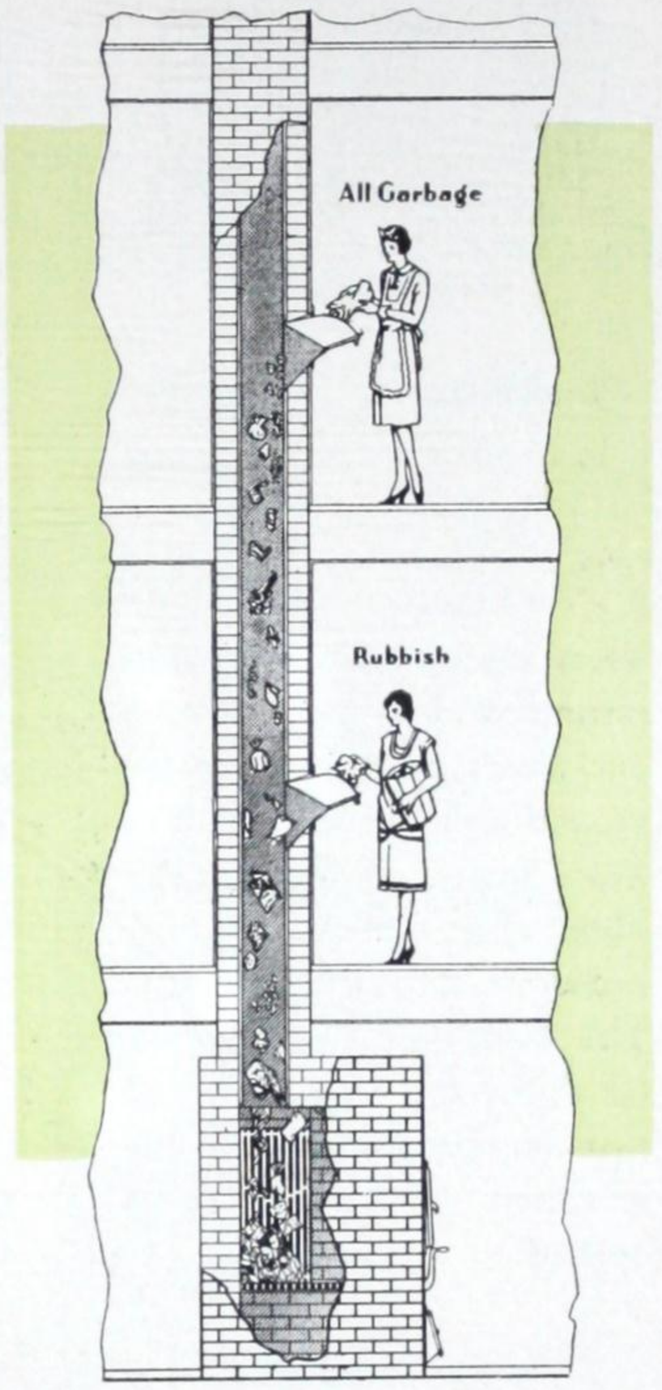


For Duplex and Two-family Buildings

THERE IS NO greater convenience than a *Kernerator* for a duplex or two-family apartment. Disposal of garbage and waste under the old methods, particularly from the second floor apartment, is a nuisance and a frequent source of complaint and disagreement between owners and tenants. The *Kernerator* in these buildings is a convenience greatly appreciated by owners and tenants.

Considered indispensable for single-family residences, the *Kernerator* is twice as necessary for the duplex or two-family building. Twice as necessary because it eliminates two sets of garbage cans—saves twice as many trips in all sorts of weather—banishes twice as many odors and twice as much garbage, that attracts dogs and flies and doubles the dangers of the unhealthful play-yard for children. Twice as necessary, because it removes the trash piles of two families from the basement, attic and closets—a hazard accountable for three out of every four fires in residences and apartments.

The convenient sanitary features of the Kernerator have compelling appeal to the housewife—and she is the one who usually decides where the family is to live. Three or four month's rentals saved, because of the *Kernerator*, will absorb the entire cost of the installation.



Cutaway view showing typical Kernerator apartment building installation.



hree of a group of six two-family ouses. Gardner Road. Brookline, lass., all six of which are Kernerator quipped. Mr. Edward Ansin, Owner and Builder.



Duplex in Shaker Height, Cleveland designed by Bloodgood Tuttle. Builder; B. J. Calder. Contractors, Alger & Knowlton.



Duplex Residence of Dr. Otto Geier, 1509 E. McMillan Street, Cincinnati.



Convenient Hopper Door in Kitchen Saves Countless Steps

Kernerator hopper doors are of heavy gray iron castings with edges, and seats on which they rest, emery ground and carefully fitted to make them as air-tight as possible. The frames are firmly anchored into the masonry. The back apron (hoppers) on doors are so constructed that the opening into the flue is closed when the door is opened.

» »

Minimum Flue Area

Where but one receiving hopper door is used on the first floor, the inside flue dimensions must be at least 12″ x 12″. If an additional hopper door is also installed on the second floor, then the inside flue dimensions should be 16″ x 16″.

» »

Restricted Use of Flue

Under no circumstances can oil or gas burning heating plants, or fireplace flues, be connected in any way to the Kernerator flue.

What is the Kernerator?

THE *Kernerator* consists of a brick combustion chamber, with fire brick lining, generally located in the basement of the building at the base of the chimney. In buildings where there are no basements or where other conditions require it, the incinerator can be built against the outside of the building as shown on page 4.

Into this incinerator chamber is built a special arrangement of grates, including a vertical by-pass grate with a by-pass flue behind it, to assure proper air circulation, to help dry out the moist material between burnings, and to provide top surface burning necessary for complete, successful and odorless combustion of garbage and waste.

With the Chimney-fed *Kernerator,* one or more receiving hopper doors (shown above) are located on the floors above. In a residence the hopper door is located in or near the kitchen. Hopper doors open through the wall into the chimney or flue, which serves as a fall-way for garbage and waste deposited in the hopper door, and also as a chimney to carry off the products of combustion during burnings.

The Chimney-fed *Kernerator* takes up no room in the kitchen or pantry. All that is seen in any kitchen or living quarters, is the neat hopper door.

How the Kernerator Operates

Into the hopper door is put all waste of every kind—not only garbage, but broken bottles, tin cans, cardboard boxes, wilted flowers, sweepings, magazines, newspapers—in fact, all of the things that are no longer wanted and which unless disposed of at once, continuously fight against clean, sanitary conditions.

This waste falls down the flue to the incinerator chamber, where it spreads out on the grates into a more or less separated and loose pile, permitting the constant flow of air up the by-pass to circulate through and around it, causing a surprising amount of evaporation between burnings.

No Commercial Fuel Necessary Costs Nothing to Operate

When the incinerating chamber is nearly full, the refuse is lighted (a match does it) and the whole mass burns without further attention. Due to the by-pass flue, combustion is from the top downward and all unpleasant odors are destroyed. The fire feeds upon the waste paper and other combustible materials, and gradually dries the damp substances, so that they also burn to a fine ash. After several burnings the ashes, along with the cans, bottles and other non-combustible articles, which are thoroughly flame-sterilized, are dumped into the ash-pit at the bottom of the incinerating chamber, for removal every few months.

That's all there is to it. Under normal conditions* the *Kernerator* requires no gas, coal, wood or fuel other than the waste that is dropped into the hopper doors. The first cost is the only cost.

*In some installations, there is such a large preponderance of garbage over dry combustible refuse that normal operation is not possible, and some additional fuel is necessary.

To meet these conditions, a gas dryer can be furnished. The dryer is not standard equipment, and must be specially mentioned if desired.

Importance of the By-Pass Flue and Vertical Grate

AT the side of the horizontal dumping grates, on which the refuse falls, is the by-pass or upright grate. Behind this is the by-pass or secondary flue. This patented feature permits air to pass up from the ash pit through and over the material on the horizontal grates. Between burnings, this circulation of air causes considerable evaporation. During burnings, air comes up this by-pass flue, passes through the by-pass grate and feeds heated oxygen to the top of the fire. The fire is always on top of the burning material. As the heat liberates gases from the material underneath, these gases pass up through the flames, are mixed with a plentiful supply of heated air at that point and are consumed. The illustration below shows this process in operation.

No Heat, Smoke or Odor Escapes into the Building

There is always a draft into and up the chimney, and so when the hopper door in the room is opened, either between burnings or during burnings, the air is drawn from the rooms into and up the flue. There is never a possibility of either heat or smoke escaping into the room—the suction of the chimney draft prevents it.

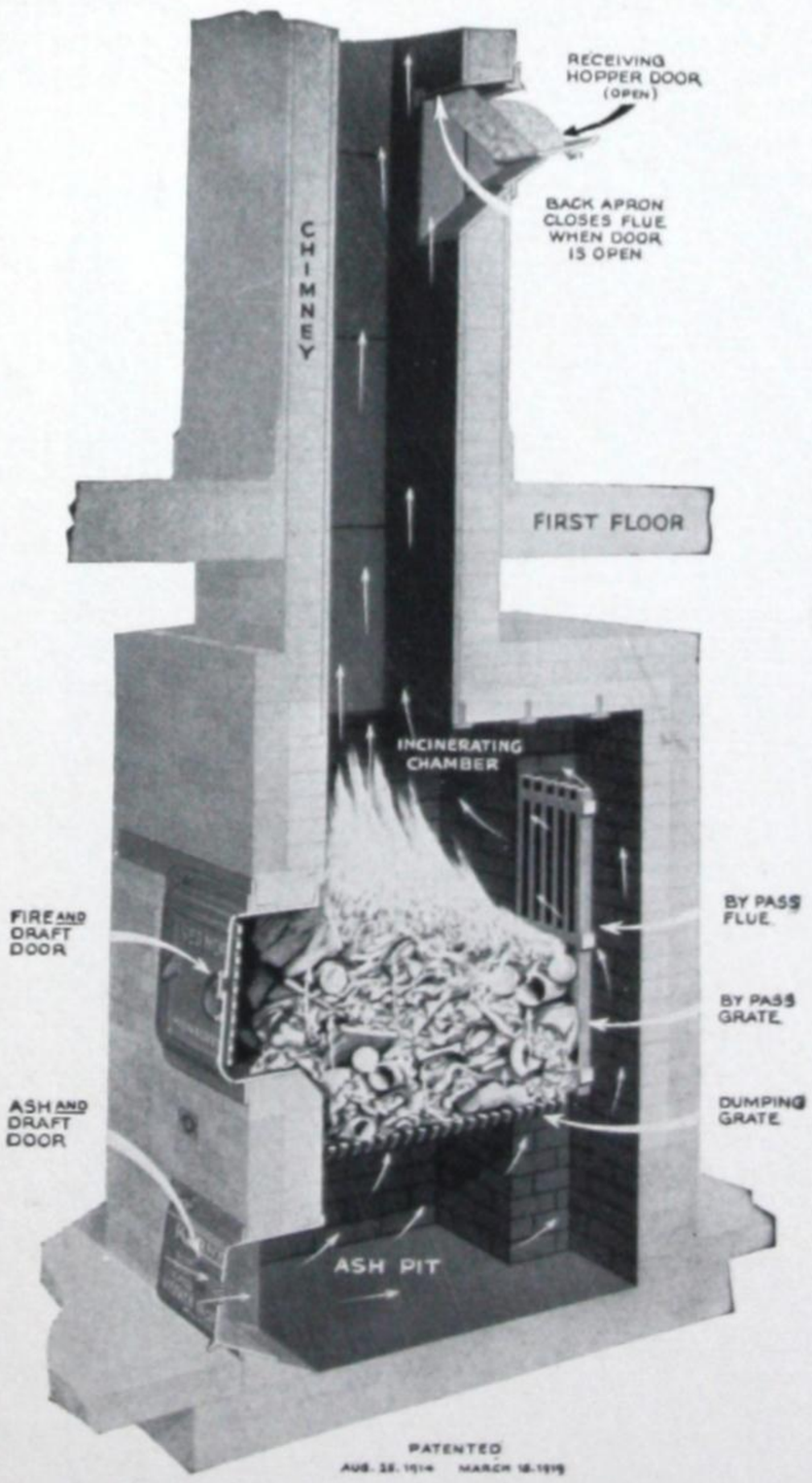
Always a Clean, Sanitary Condition

The heat from the burnings sterilizes the entire chimney flue, maintaining a sanitary condition throughout. The oily soot and creosote on the inside of the flue walls prevent waste particles from adhering. Falling waste from the floor or floors above, prevents any large accumulation of soot on the chimney walls.

Several Standard Sizes to Meet Different Requirements

The *Kernerator,* in both the Chimney-fed and Basement-fed types, is built in a number of standard sizes to meet the requirements of small and large residences, duplexes or two-family apartments, and other buildings. It becomes a permanent part of the building, and is built in accordance with detailed working drawings which are furnished with the parts. The drawings are clear and the construction simple, so that the mason has no difficulty in building it.

The Chimney-fed *Kernerator* should be included in the plans, when provision can be made for a flue of proper size and conveniently located for placing hopper doors on floors above. Let us know the size of your building (the number of rooms if a residence—or if an apartment the number of floors and number and size of the apartments) and we will send you several basement arrangements for the Chimney-fed *Kernerator* model of sufficient capacity for your building. One of these basement layouts, will no doubt, fit into your plans without any changes. A special layout to meet any particular requirements will be furnished on request.



Sectional view showing interior construction and operation of the Chimney-fed *Kernerator.* Notice the draft reaching point of burning through by-pass grate. The fire is always on top of the burning material, consuming offensive odors.

KERNERATOR
REG. U.S. PAT. OFF.
INCINERATION

Typical of Hundreds of Similar Letters Received from Kernerator Us

No Home Complete Without It

In building our new home, we were advised by our architect to include a *Kernerator*. After becoming accustomed to its use, it has become almost indispensible. I would not consider any modern home complete that did not have this quick, safe, and sanitary means for the disposal of all refuse from the house.

JOHN M. MORSE,
Woodbridge, Conn.

Mr. Morse's house was one of the prize winning designs of the National Brick Manufacturer's Association Competition.

Wouldn't Be Without It for Five Times the Cost

We consider the *Kernerator* one of the greatest conveniences we have and would not be without it for five times the cost. It has done all that is claimed for it, and we are delighted that we put one in, though we had to break our cellar wall at an expense of $40.00 to do this.

C. L. VEACH,
J. M. Clayton & Co.,
Cambridge, Md.

As Necessary as a Kitchen S

I have just had the pleasure of ans
ing a letter asking why I installe
Kernerator in my new home
Lake George, New York.
My answer was as follows:
"For same reason I am installing m
ern plumbing, sanitary reasons."
I consider an Incinerator as necessa
in a dwelling as a kitchen sink. T
Incinerator is a new weapon with whi
to effectively fight germs and their ca
riers. Let me quote Wood Hutchinso
M.D.—"We must not blame God f
the fly, for man made him. He is th
resurrection, the re-incarnation of ou
own dirt and carelessness.

JOHN H. RANDERSON,
Albany, N. Y.

After Five Years Service

The *Kernerator* which was installed in my house about five years ago is giving perfect satisfaction—in fact we do not see how it could be possible to get along without it—at any rate to say the least, it would be very inconvenient. It has caused us no trouble whatever and easily takes care of all the refuse which accumulates from time to time in our house.

JOHN H. PROCTOR,
John H. Proctor & Co., Bldrs.,
Boston, Mass.

A Most Valued Convenience

The *Kernerator* is a source of great satisfaction and one of our most valued conveniences.

L. E. F. PRINCE,
29 Kalorama Ave., N. W.
Washington, D. C.

One of the Greatest Assets in My Home

I consider the *Kernerator* one
the greatest assets I have in my home.
have an oil burner and an electric
frigerator as well as other modern c
veniences in my home, but none
them do I value as highly as
Kernerator.

R. V. JONES,
524 Waverly Ave.,
Brooklyn, N. Y.

As Necessary as Electric Lights

I would indeed be ungrateful if I did not offer a word of commendation for the splendid service your *Kernerator* is rendering in our home. Much of the unpleasant drudgery of the kitchen is removed when the refuse and garbage is taken care of without stepping out of the kitchen. The *Kernerator* is as necessary in a modern home as electric lights and refrigeration.

A. L. EGAN,
Pres, Egan Printing Co.,
Dallas, Texas.

After Ten Years Service

In 1917, Herbert Jackson, Attorney, Cincinnati, wrote: "We have found the Kerner Incinerator the best investment in our entire house. I had no idea there was such a thing as an incinerator without odors, but a six months' trail of your incinerator has developed the fact that there is no odor at any time. The Kerner Incinerator is so simple in its mechanism, that if householders will follow the simple directions, they will have no trouble in disposing of all their refuse and garbage without odor, cost or expense. I look upon the Kerner Incinerator not only as a good investment, but a great saving of labor and I cannot recommend it too highly."

Ten years Later, in May, 1927,
Mr. Jackson wrote:

"My opinion of the *Kernerator* has not changed and my sentiments are exactly what they were in 1917. The *Kernerator* has been satisfactory in every respect and although we have used it for ten years we have never had a bit of trouble with it and I can highly recommend it."

More Important in Suburban Territory

The Kerner Incinerator in my hom
most satisfactory. We are located
in suburban territory, where no arra
ment is provided for garbage dispo
and therefore, the incinerator is all
more important. However regardles
the location of the home and facili
for garbage removal, it should con
an incinerator as necessary equipmen

IRENAEUS SCHULER, *Realto*
Omaha, Nebr.

A Most Appreciated Convenience!

The *Kernerator* which I installed about eighteen months ago in my new home, has been very satisfactory. It consumes all the garbage without any odor and is one of the most appreciated conveniences in my home.

D. A. CURRIE,
Erie Foundry Company,
Erie, Penn.

Glad to Have It in Our Ho

I want you to know that your Ke
Incinerator installed in my home is
ing very satisfactory service and is o
ating very efficiently. I am very g
that we have this modern convenie
in our home.

SOL. REINTHAL,
The Bamberger-Reinthal Co.
Cleveland, Ohio.

KERNER INCINERATOR COMPANY . . . MILWAUKEE, WISCONSI

FORM 255 12M-8-33

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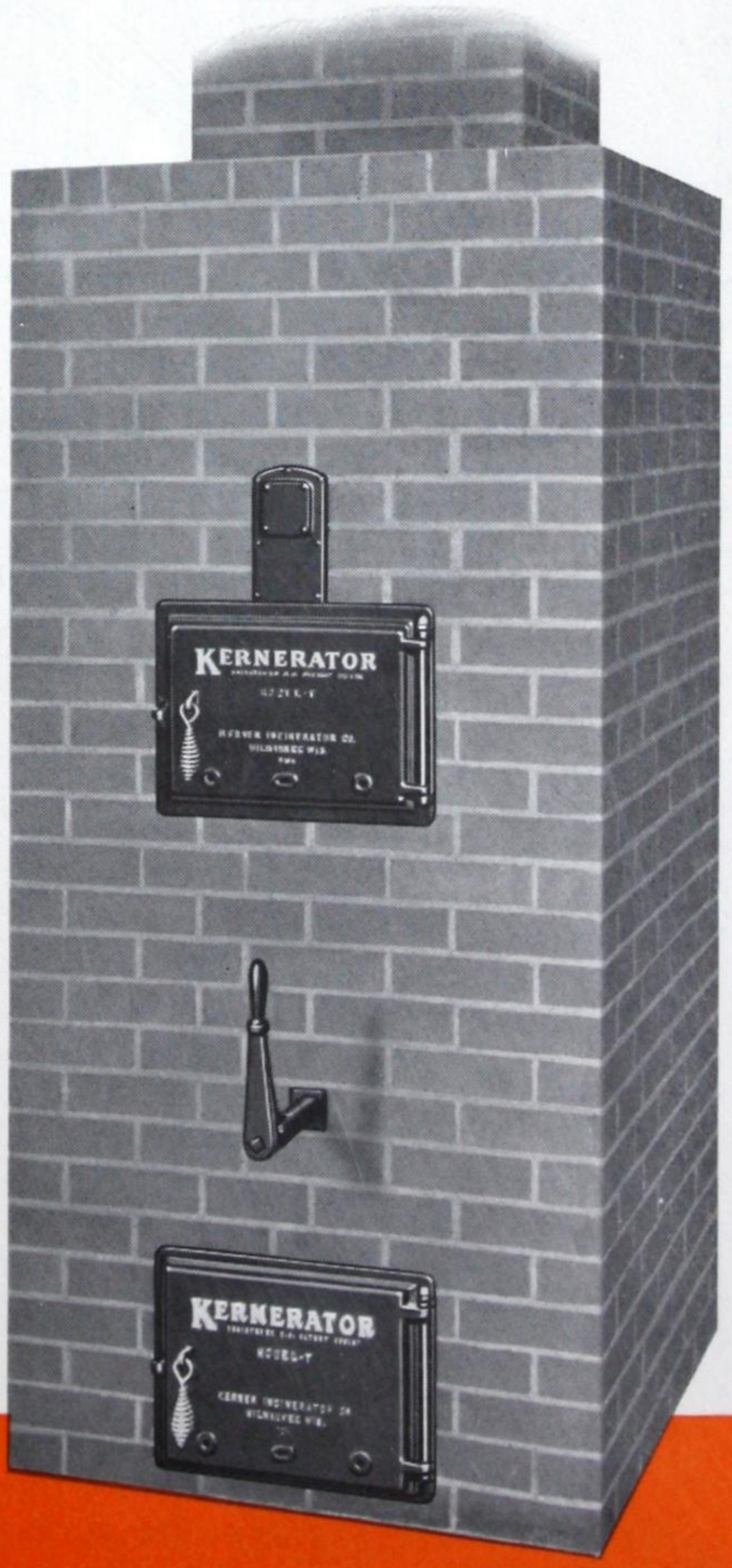
Printed by Greene Printing Co., Milwaukee, W

O
ARBAGE
ANS . . . .

ROP ALL WASTE HERE



then forget it!



KERNERATOR
REG U S PAT OFF
INCINERATION

MODEL "T"

Companies: **Morse Boulger Destructor Co., New York City**
Heavy-duty garbage and rubbish destructors.
Kernit Incinerator Co., Milwaukee —
Portable Gas-Fired Incinerators.

RNER INCINERATOR COMPANY

Originators of Flue-Fed Incinerators — Established 1914

3707 NORTH RICHARDS STREET, MILWAUKEE, WISCONSIN

KERNERATOR
REG U.S. PAT. OFF.
INCINERATION

PRICED SO EVERY HOME SHOULD HAVE IT . . .

INSTANT GARBAGE AND RUBBISH DISPOSAL



. . . step-saving, sanitary.

Instead of bending to a garbage pail under the sink, the Kernerator provides this attractive receiving door flush-with-the-kitchen-wall. Instead of tramping to the outside garbage can and tugging at a heavy metal lid, the Kernerator Hopper Door is always at your elbow . . . . opens and closes at the lightest touch. Instead of old papers and boxes lying around, trash like this is burned in the brick combustion chamber in the basement. The Kernerator provides for the disposal of all this other waste just as conveniently as the plumbing drains take care of the liquid waste. It saves steps, it adds neatness, it eliminates the unsanitary garbage can, it reduces the fire menace that lurks in every trash pile.



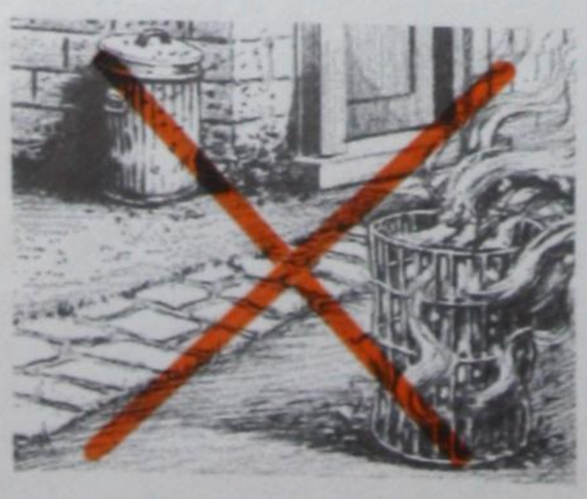
Hopper D
on Two F

The same
can be the
way for u
disposal o
second floo
simply ins
second h
door.

AVERAGE COST ONLY $5 A YEAR

There is nothing about the Kernerator to wear out. It will last as long as the building. Including the masonry, the price is so low that over a 20 to 25 year period, this convenience can be had for not more than $5 a year.

Feeds on Everything. Rubbish, papers, sweepings, garbage, tin cans, bottles, old razor blades — everything you want to get rid of is simply dropped through the handy hopper door. The capacity is large enough to hold several days' accumulation — then all that is needed is a match. Incombustibles such as tin cans are flame sterilized for removal with the ashes.



No Fuel Required. Garbage and slow burning waste is consumed by the combustible waste. Ordinarily no commercial fuel is necessary. If, as a result of an unusual proportion of garbage to combustible waste, additional fuel is needed a co of hands full of kindling wood is all that is necessary to it out. Where gas is available, a gas torch can be include no additional cost.

Which in your yard . . .
FLOWERS OR FLIES?

Basement-Fed Kernerator. For existing residences (whe flue of proper dimensions is not available), and for new h where the regular chimney is not convenient to the kitch basement-fed unit may be installed — not as convenient a hopper door upstairs, but much better than the unsightly, h menacing, outdoor garbage can, and the ever-growing trash in the basement.

SPECIFICATIONS

Width, 2′ 11″; Depth, 2′ 11″; Height, 6′ 1″.

Number of Fire Brick Required: Approximately 175.

Number of Common Brick Required: Approximately 525.

Capacity: 6 Bushels.

Grate: 18″ x 18″.

Gas Feed Line to Burner (if used): ¾″ Pipe.

Flue Sizes (Inside Area): Hopper Door on first 12″ x 12″; Hopper Doo second floor: 16″ x 16″.

Overall Dimensions of H Door: 10½″ wide by 1 high.

Overall Dimensions of Fir Ash Doors: 16½″ wid 12″ high.

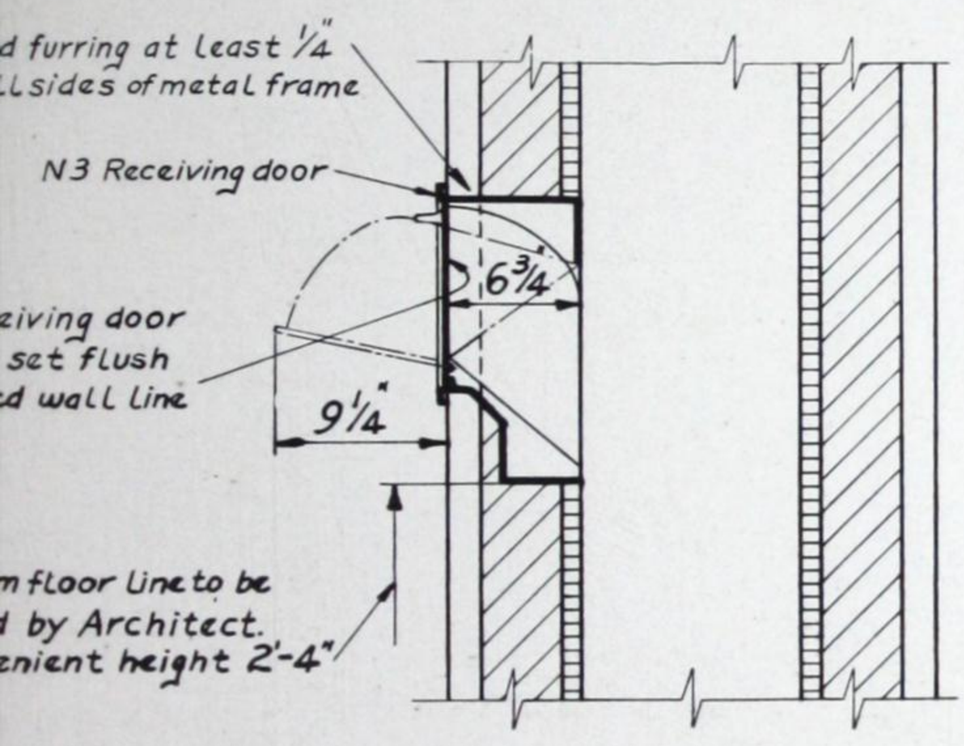
AIR-TORCH INCINERATION

lel T Kernerator is revolutionary in design since the air for combustion is fed down-
l impinges directly onto the surface of the burning waste, instead of being fed from
e grates, which was heretofore the usual method.

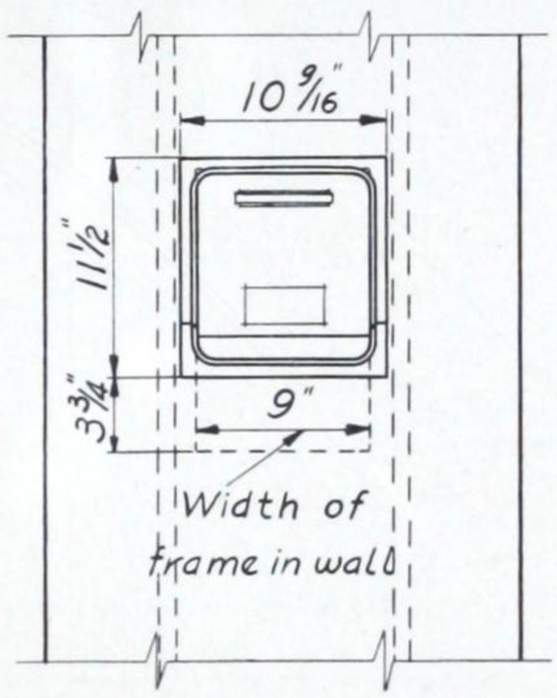
---

always a draft into and up the chimney, and so when the hopper door in the room
either between burnings or during burnings, the air is drawn from the room into and
ue. There is never a possibility of either heat or smoke escaping into the room — the
f the chimney draft prevents it.

MODEL "T" INSTALLATION DRAWINGS



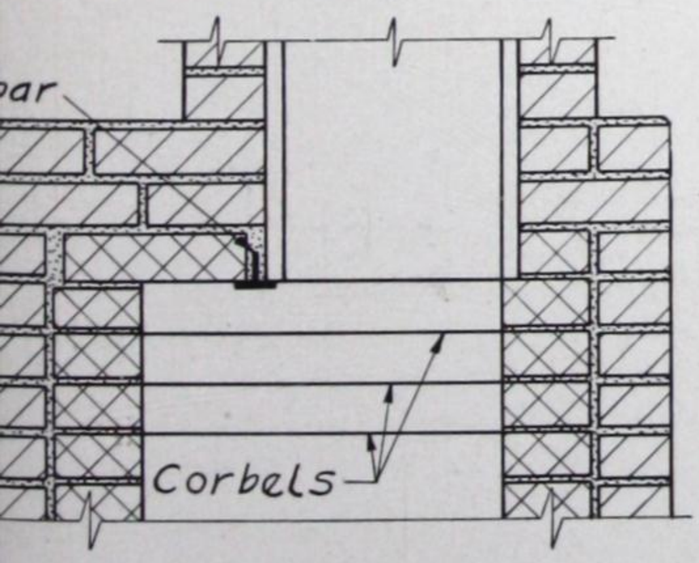
SECTION



FRONT VIEW

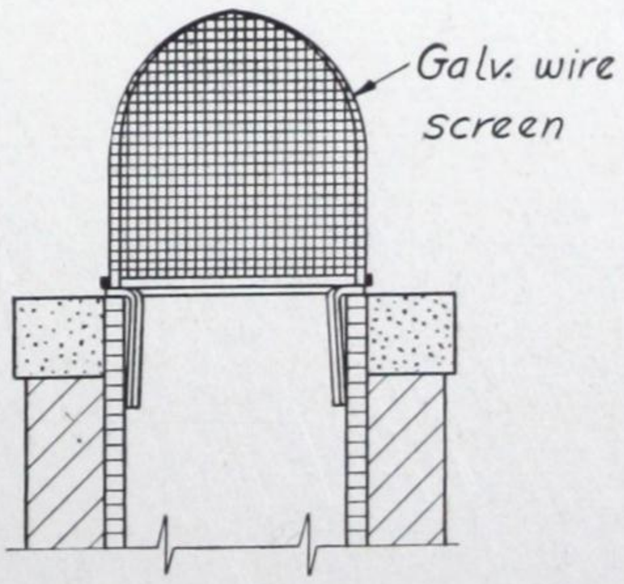
DETAILS OF RECEIVING DOOR

Scale 3/4"=1'-0"



TION SHOWING METHOD
YING BRICK AT COVER

Scale 3/4"=1'-0"



SECTION AT CHIMNEY
TOP SHOWING SCREEN

Scale 3/4"=1'-0"

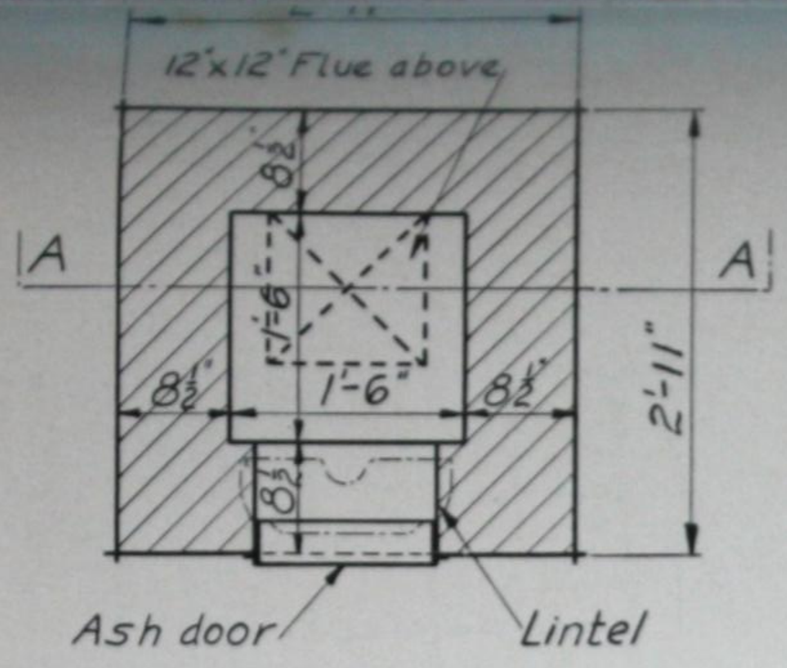
SINCE the constructi... made for... If ar... Kemerat... his specia... him that... informat... us direct...

Shou... provided...

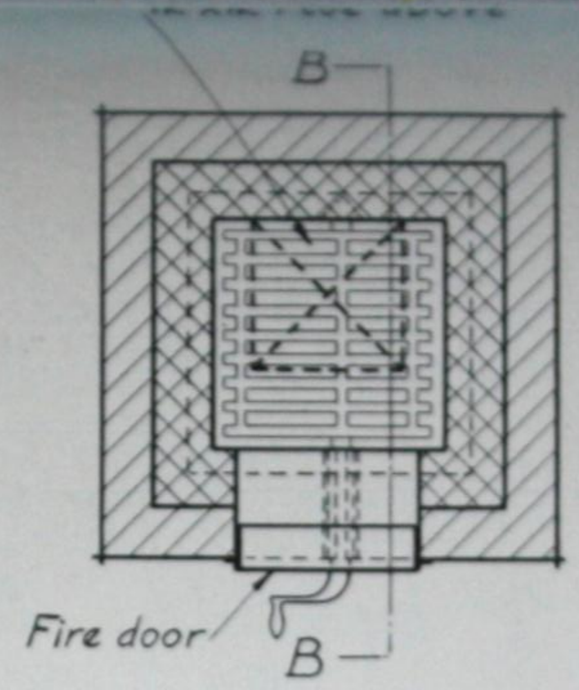
A li... this fold... give you... operation...

All ... first one ... called up...

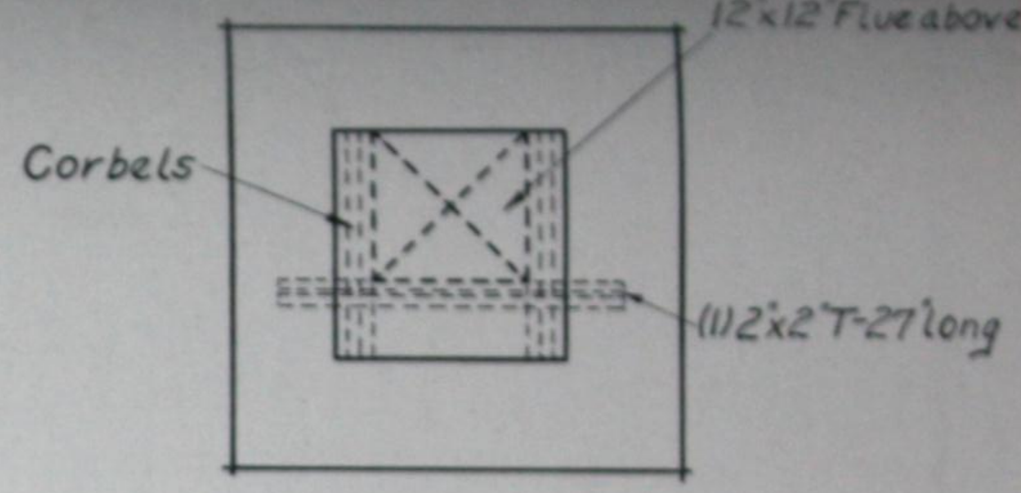
FILL IN ... AND MA... NO ... STAMP ... NECESSA...



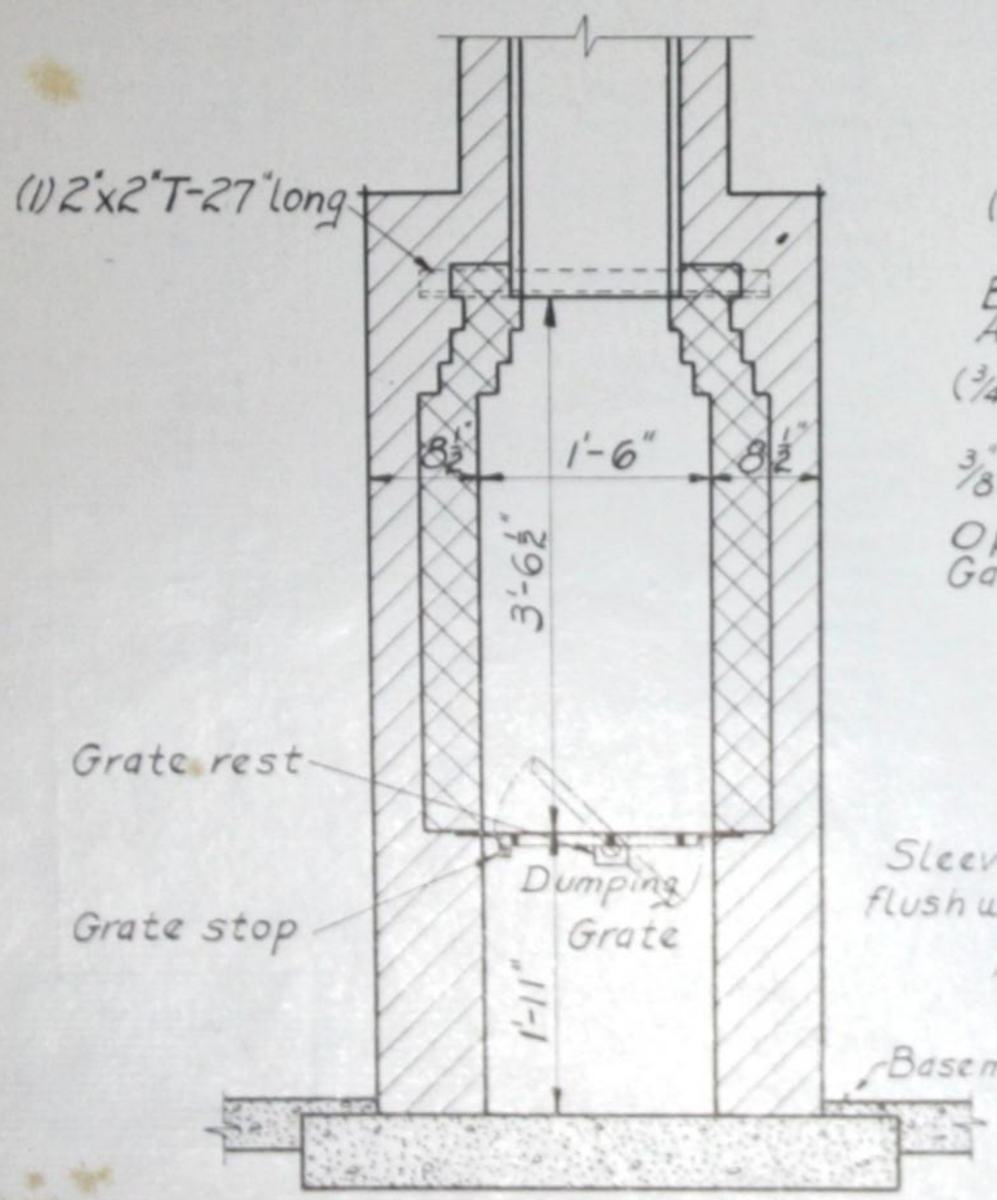
PLAN BELOW GRATE

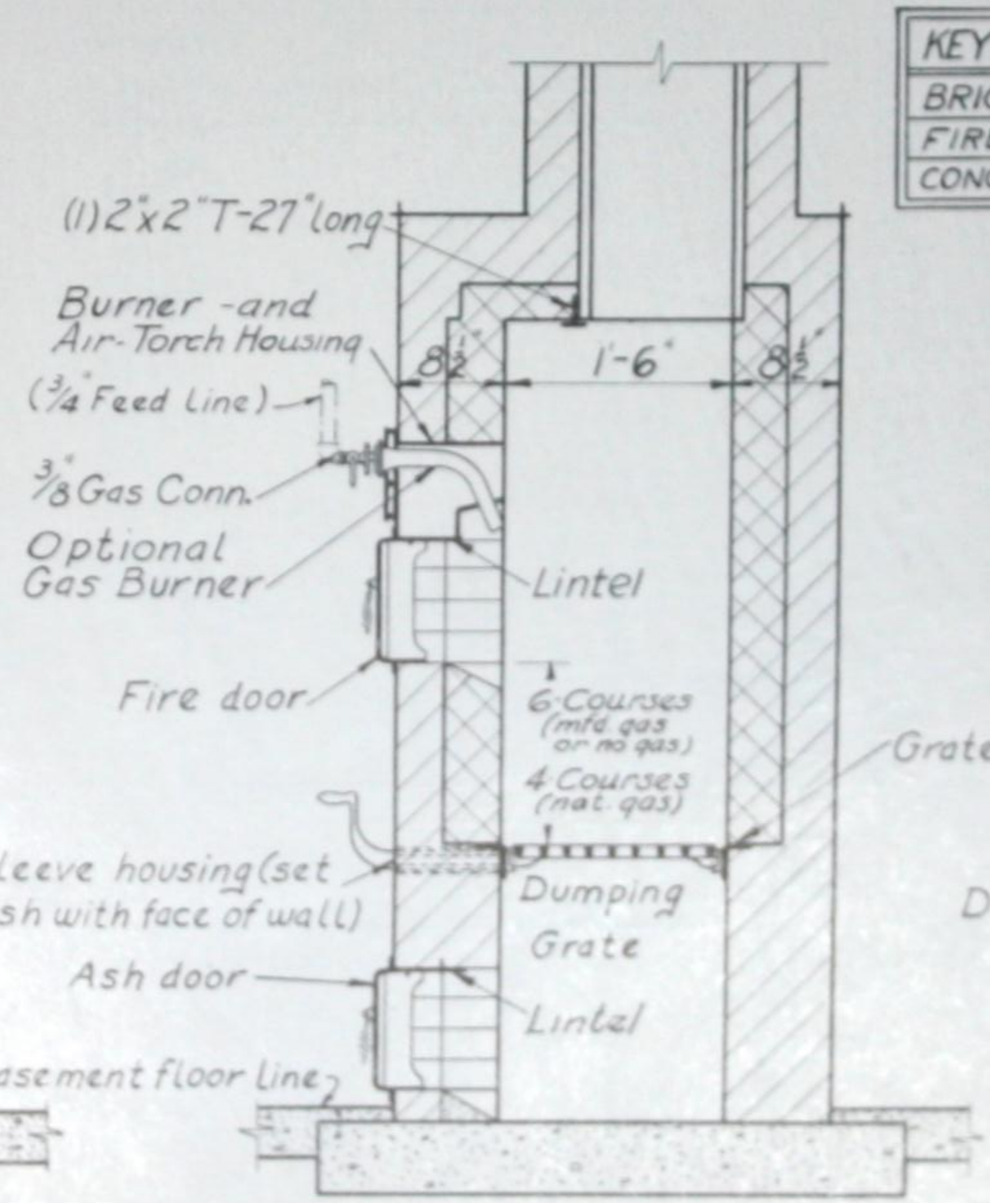


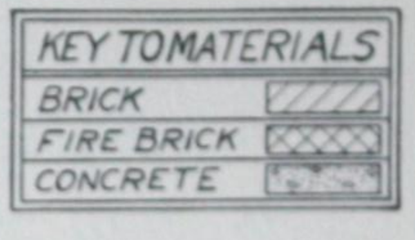
PLAN ABOVE GRATE

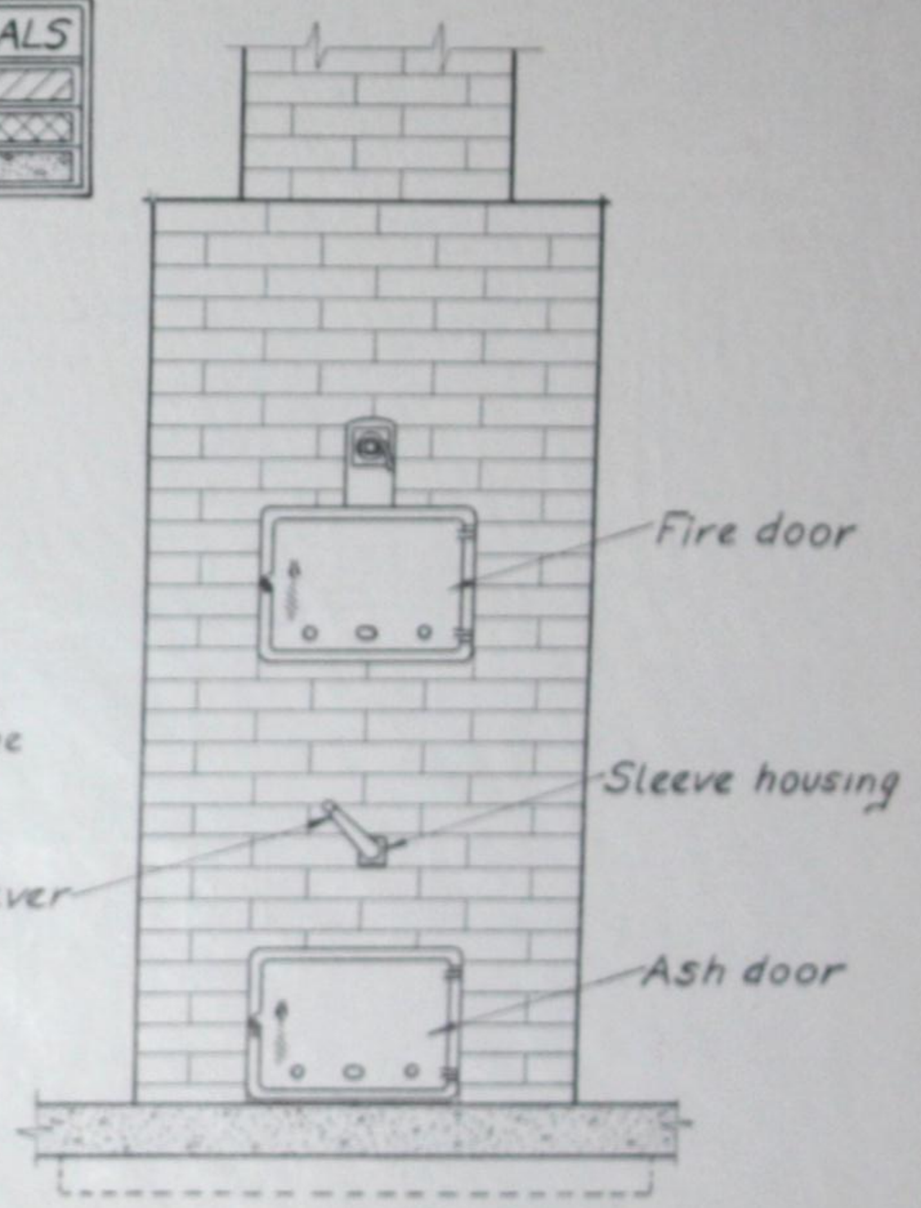


STEEL SETTING PLAN









FORM 881 — COPYRIGHT 1955 — KEENER INCINERATOR COMPANY

HOW TO ORDER YOUR KERNERATOR

SINCE the Kernerator becomes a permanent part of the building and is constructed when the foundations go in, it is important that provision be made for it in the early stages of the plans.

If an architect is drawing the plans, simply inform him that you want a Kernerator, and he will take care of properly locating it and covering it in his specifications. If a contractor is handling your residence, simply inform him that you want a Kernerator. If he does not already have all the necessary information, he can get it from our nearest agent. He can, of course, address us direct if he wishes.

Should you want further detailed information or an estimate, we have provided below a postage paid addressed card for your convenience.

A list of Kernerator agents appears on the inside front cover page of this folder. They are anxious to be of service to you, and will be glad to give you prices and further details with reference to the construction, operation, and benefits of the Kernerator.

All Kernerators are sold with a money-back guarantee. Since the first one was installed, over twenty years ago, the Company has never been called upon for a refund of the purchase price under this guarantee.

FILL IN AND MAIL NO STAMP NECESSARY →

KERNER INCINERATOR CO.
3707 North Richards Street
Milwaukee, Wisconsin

Gentlemen: I am interested in receiving further information and prices on a Kernerator for the home which I will start building in _____ (Please give month). The house will contain _____ rooms (excluding bathrooms). Plans will be supervised by _____ Architect or _____ Contractor.

Name _____

Street Address _____

City and State _____

KERNERATOR

REG. U.S. PAT. OFF.

INCINERATION

Garbage and Waste Disposal for New and Existing Buildings

KERNER INCINERATOR
ALSO MANUFACTUR
KERNIT AND **KLEENB**
GAS-FIRED PORTA
INCINERATORS



Postage Will Be Paid by Addressee

No Postage Stamp Necessary If Mailed in the United States

BUSINESS REPLY CARD

First Class Permit No. 1592 Sec. 510 P. L. & R. Milwaukee, Wis.

KERNER INCINERATOR COMPANY

3707 North Richards Street

MILWAUKEE, WIS.

Let's see now... WE WANT TO USE PLENTY OF

GLASS

IN OUR NEW HOME

•

IT MAKES THE HOUSE SO BRIGHT AND CHEERFUL



This book contains many practical suggestions offered by

Y • OWENS • FORD GLASS COMPANY • TOLEDO, OHIO

Because so much can be done with glass, both in constr

tion and decoration, we believe that you will find these pa

a valuable guide in planning those distinctive touches t

lift a home above the average and make it an attracti

inspiring place in which to live and entertain one's frien





//

. . . Out of windows we walk onto lawns in summer and meet men and women, and in winter windows are drums for the splendid music of storms that make us feel so masterly 'round our fires. But for windows, we should have to go out-of-doors to see the daylight. After the sun, which they serve, I know of nothing so beneficent as windows. Fie upon the ungrateful man who has no window-god in his house, and thinks himself too great a philosopher to bow down to windows. May he live in a place without windows for awhile to teach him the value of windows. As for me, I will keep the high worship of windows till I come to a windowless grave. //

HILAIRE BELLOC





Everywhere YOU SEE A MORE GENEROUS USE OF GLASS IN THE HOME

hat is essentially a new type home has come existence in recent years. Its dominant ueteristic is more and larger windows, but ncreased use of glass by no means stops with /indows. Inside, you find a very liberal por- of the wall space specially planned for ors. Sun porches and solaria are almost ys integral features of design. And the rator carries on, when the architect's work one, with mirror topped and glass topped s, with many incidental mirrors on the wall, mirrored screens, glass and mirrored acces- sories and a score of other details based on glass. Almost everywhere, glass is receiving the recognition to which its beauty and practical utility entitle it, not alone as a building material but as a decorative medium ideally suited to express the many moods and phases of a new era in gracious living. In planning your new home, you are sure to find numerous ways in which a more generous use of glass will add to its attractiveness. The following pages may suggest a few that would not ordinarily come to mind.

LIBBEY • OWENS • FORD
QUALITY GLASS

Let's start in the

LIVING ROOM



There are few things prettier than small, colorful house plants placed on plate glass shelves in a window.

● Design and decoration are vitally important because they delineate the character of the person responsible for them, expressing either taste and discrimination or disclosing the lack of those qualities. The possibilities of expression in these two arts are greatly enhanced by a use of glass. No other material offers utilitarian, aesthetic and psychological values to the same degree.



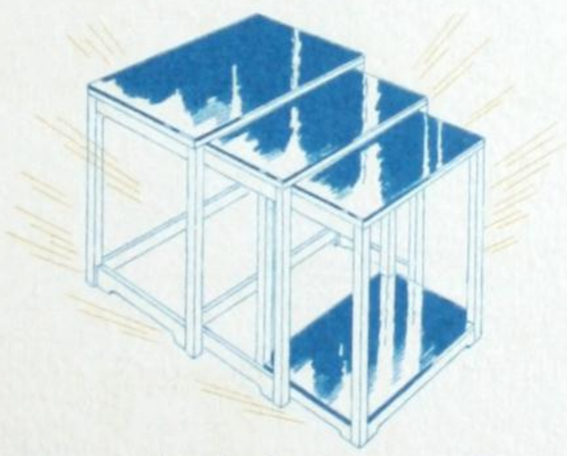
Mirror panels for light switches offer sparkling little spots of brilliance as well as an effective means of eliminating finger smudges from the wall.



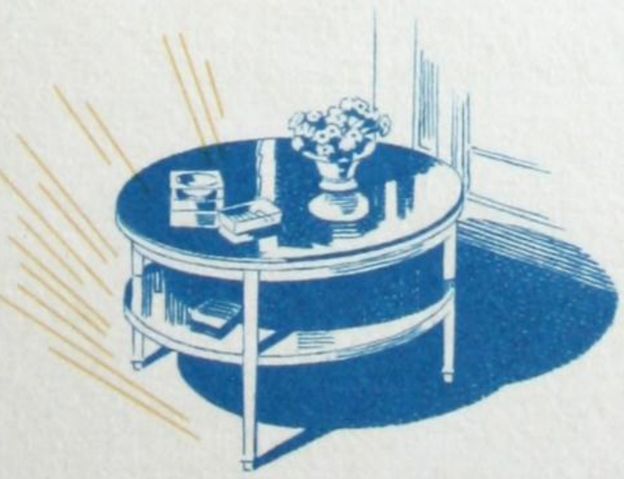
Mirrors that completely frame a fireplace, in addition to the over-mantel type, are noted in many distinctive homes.

It has become the very key
decoration and design. In the
room, for instance, where
between the family and the
world is a major conside
plenty of mirrors and liberal
areas create the stimulating
air that the purpose of the
requires. There is no place i
gloomy corners, dark wall
shadowed ceilings. Those re

ay have flown in a flood of
t. In their place, has come
ful room. Windows welcome
ntry, warm one's stay, leave
t memories that draw one
gain. Picture Windows, those
usly proportioned expanses of
d plate glass that frame one's
e view and make it seem a
ng mural on the wall. Corner
ws, those brilliantly glazed



A nest of tables is always an asset from the purely practical viewpoint. When they have bright, gleaming glass or mirror tops, they rise above mere utility.



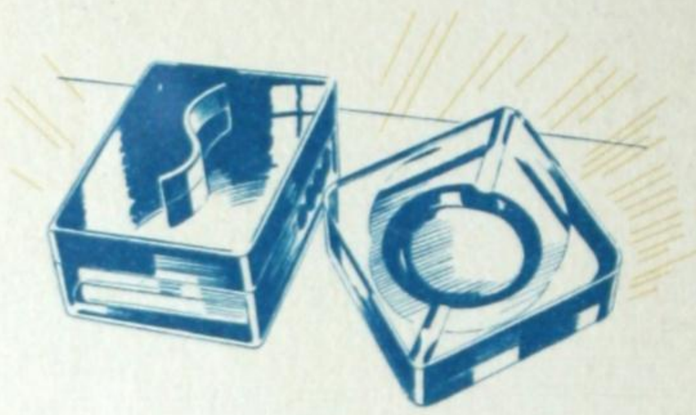
Glass tops on casual tables are easy to keep clean and provide efficient protection for the finish.

surfaces, meeting at right angles, that brighten interior corners where shadows used to hover. Window Walls, those continuous banks of adjoining windows and glass doors that appear to bring the out-of-doors into the interior of the home. Glass in the walls, as windows, sets the theme. Glass on the walls, as mirrors, makes the room brighter and seem much more spacious.

The skillful hand in decorating can do just as many tricks with mirrors as a stage magician, and get just as arresting results. For instance, the sunlight streaming through a window is thrown about the room by a wisely placed mirror. One could almost believe that mirrors persuade the sun to enter. Mirrors repeat designs and create a room pattern where none has existed before. They draw each reflected area into it, unifying ensemble with a frame. All in their virtues are so many their possibilities so infinite to overlook the value of mir is to neglect the most effec decorative media available day. By all means, use t generously in the living r Combined with ample wind you will be exceedingly ple with the results.



Mirror panels between two windows create the illusion of one double size glazed surface.



Mirrored accessories are very much in vogue. Cigarette boxes, ash trays, wastebaskets and the like all lend themselves splendidly to this effective treatment.



In the DINING ROOM

Some say it is flavoring · Some say sauces · Some say wine . . .

. . *Whatever one says, however,* everyone is bound to agree that the dining room itself is instrumental in tempting both the appetite and the company gathered at the board. For that reason, mirror topped tables are enjoying a decided and well merited vogue. There is something about an upside down reflection, no matter how familiar the object reflected, that is delightfully different. This is especially true in the dining room, for the lure of fine silverware, china and crystal is doubled when guests see them once upon the table and again reflected in its brilliant surface. Everything in this room should be conducive to dining comfortably and with relish. There should be plenty of light from large windows for the daytime meals; soft, but effective illumination after dark. The lighting fixtures are important. Much can be done with mirrors in the fixtures themselves as well as on the walls and as accessories. A mirror may be hung so that it reflects a bit of the outdoor land-

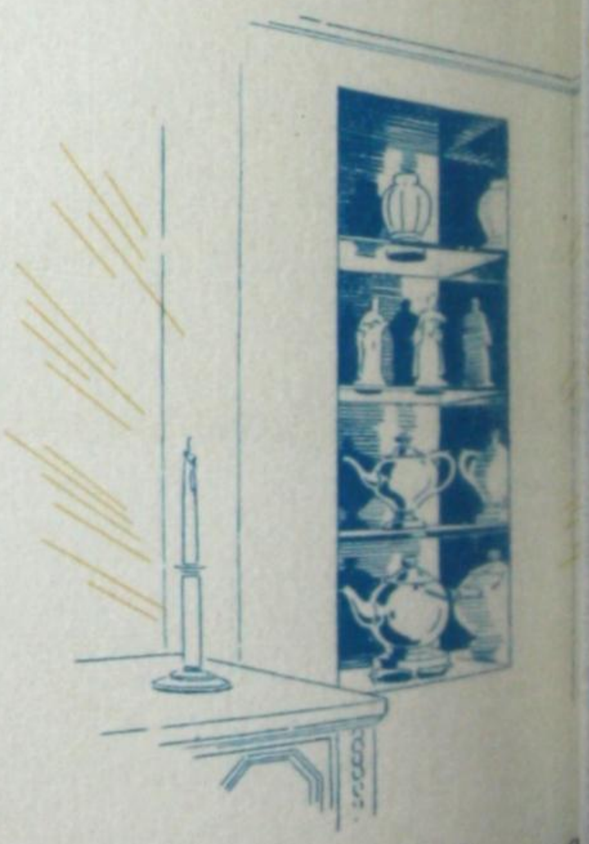




Mirrored accessories about the dining are just as important and effective as are in any other room in the house



If your room is not built to accommod niche, hanging corner shelves of mir glass create a similar effect.



Glass shelves in mirrored niches set off add lustre to anything placed upon t

● *What a cheery spot for breakfast! It cannot but elevate the spirit to a plane in keeping the light and airy atmosphere. It is easy to ceive one's pleasant reaction to such surround*

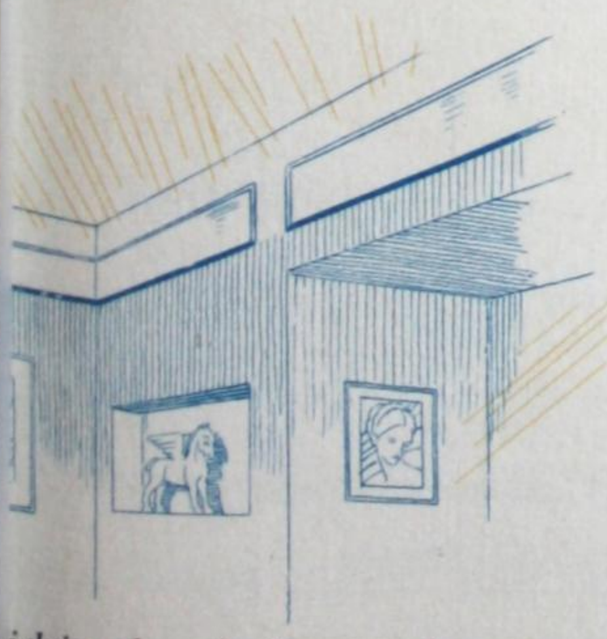
ning room shows a decided modern ten- Instead of the customary partition and the entrance to the kitchen, an ass screen is used. Behind the screen ass aquaria, one built into the wall, the a marine decorated glass panel above it.



ıshplate on the door to the kitchen ıctical and also serves a decorative purpose.



ighting fixtures offers innumerable possibilities that challenge one's ingenuity.



ighting through glass panels near ıg is a pleasant and effective innovation.

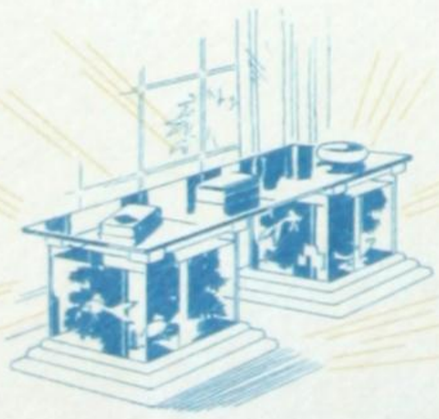


scape and in this sense becomes a picture. It may be used to reflect a needed bit of color or to catch the daylight and thus brighten a part of the room that would otherwise be lifeless. At night, whether they are used on the table top, on the wall or in both places, mirrors produce a mellow re-duplication of artificial lights. It may be well to consider indirect lighting through a glass lighting panel near the ceiling, here as well as in the living room, for indirect lighting is soft, flattering and actually relaxing. It is perhaps the nearest form to candle light, though far more practical, and well deserves the added attention it is now receiving in home design. Small niches lined with either mirrors or clear polished plate glass, for instance, will set off your most prized possessions to their best advantage. Do not be afraid of using too much glass in your dining room.

The SUN PORCH *and, of course, the games room*

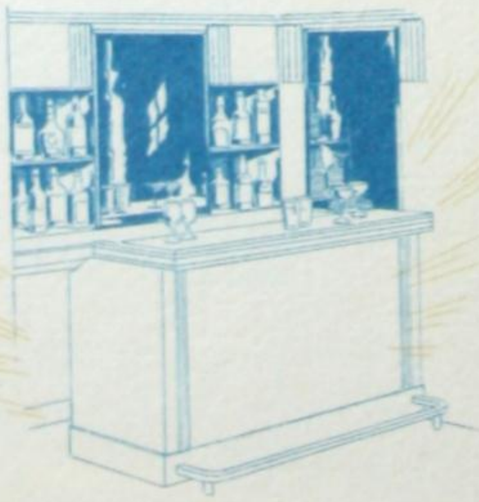
There are endless possibilities in casual tables that adopt glass as the basis of design.





An aquarium is delightfully effective and a splendid hobby for one who enjoys those funny little fish.

If you have one in your games room, a bar is not really a bar unless it has the familiar panel mirror behind it. Many modern fixtures are faced with glass or mirrored glass, as well.

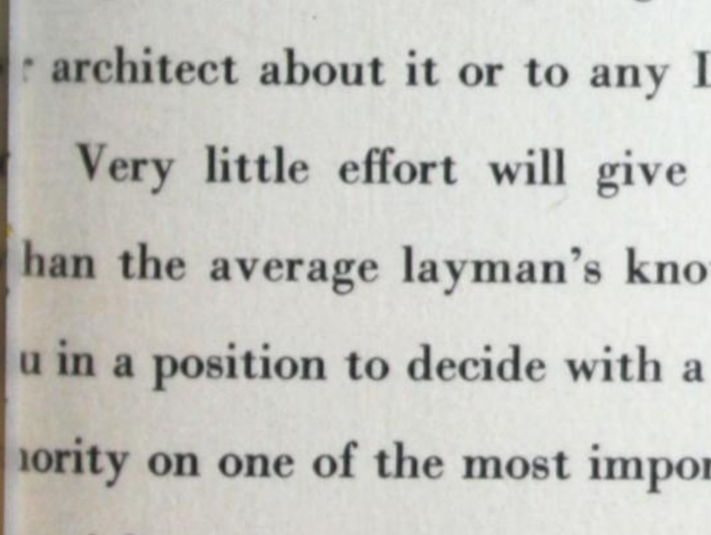


● A sun porch is essential in every modern home. Here, and recreation room, glass plays a major and perfectly obvious r far as large windows and mirrors are concerned. The rela minor uses of glass in these important rooms, however, merit siderable attention. Glass topped end tables, stands and tables are desirable not only because of their decorative valu because they do not ring and are so easily cleaned. Glass ments and accessories are exceedingly effective. Here you find a true opportunity to let glass tempt your inge

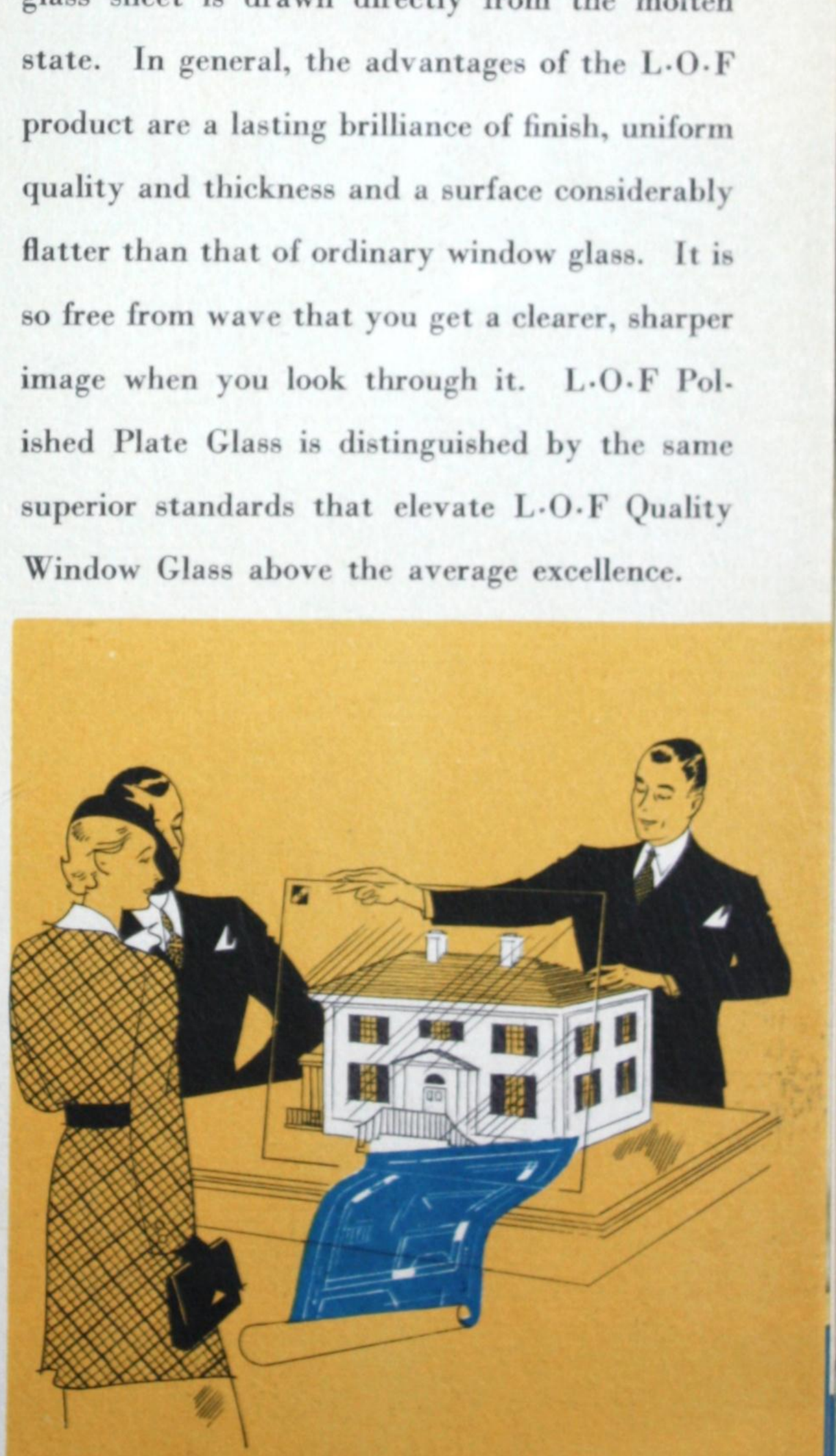
Don't take GLASS for granted

re are definite reasons why you bought the f car you drive in preference to competitive . There are equally definite reasons why ll select one heating plant rather than for your home; one type of radio; one stove or refrigerator. You made your or will make it, after careful consideration arious, though essentially similar, products by a number of manufacturers. Do the ith glass. Don't take it for granted. Talk architect about it or to any L·O·F glass

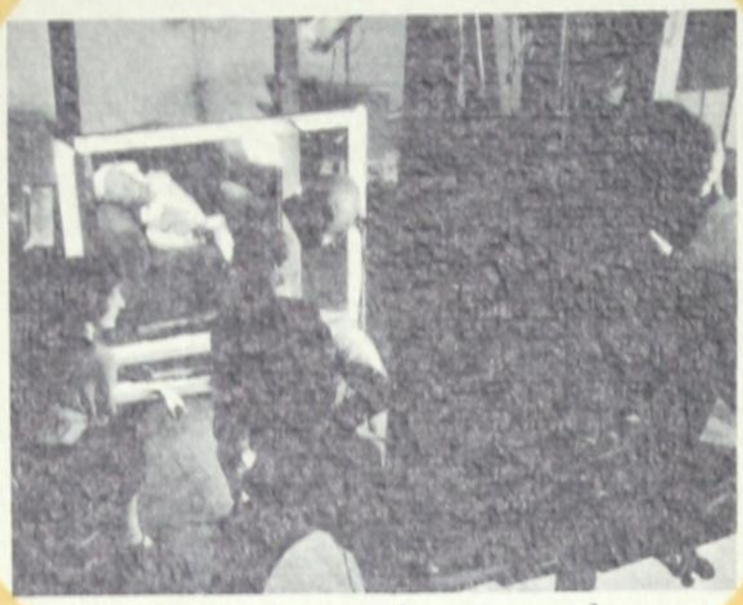
Very little effort will give you rather han the average layman's knowledge and u in a position to decide with a real degree ıority on one of the most important build- ıterials and decorative media that will be n your new home. The case for Libbey-Owens-Ford may be presented very briefly, though none the less conclusively. All window glass made by this company is manufactured by an exclusive flat drawing process in which the glass sheet is drawn directly from the molten state. In general, the advantages of the L·O·F product are a lasting brilliance of finish, uniform quality and thickness and a surface considerably flatter than that of ordinary window glass. It is so free from wave that you get a clearer, sharper image when you look through it. L·O·F Polished Plate Glass is distinguished by the same superior standards that elevate L·O·F Quality Window Glass above the average excellence.



our protection each light of Libbey-Owens-Ford low Glass bears a label indicating the strength quality of the glass. It is a good plan to insist hey be left on the glass until the final inspection of the house.



BEY•OWENS•FORD QUALITY GLASS



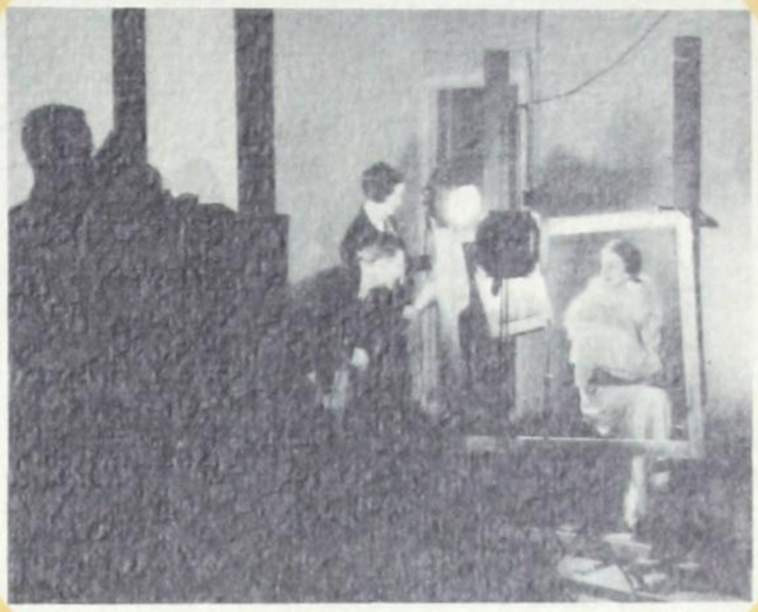
These photographs were made in the studios of Underwood and Underwood.



CAN YOU TELL WHICH IS WHICH

● In both of the groups on these pages, picture was made THROUGH a piec L·O·F Quality Window Glass and the o with NOTHING between the camera the subject. There is obviously no not able difference. While this is by no mea technical or scientific test, it is neverthe a very practical one and convincing





The authenticity of these photographs is attested to by Underwood and Underwood.

hat L·O·F Quality Window Glass is
onally clear and flat. It explains, in
easure, why so many leading archi-
rite a closed specification for this
r product and why you, too, will be
paid for insisting that it be used in
your new home wherever L·O·F
d Plate Glass is not specified. Each
labeled for your protection.

• • •

If you cannot tell "which is which," turn 24 for the correct answer, the authenticity h is attested by Underwood and Under- hotographers who made the test pictures.



The BEDROOM

● Having turned to this
from a more or less genera
cussion of glass and its qu
it may be well to review
moment some of the reaso
the current elevation of gl
a place of unusual distin
among building materials

This rather unusual photograph is a
illustration of some of the ways in w
generous use of glass can make your b
more attractive. Note the full length mi
the door, the reflection in it of the view t
the picture window beyond the be
the circular mirror above the dressing



ving and glass doors are not only practical from the standpoint of cleanness and convenience, but are highly decorative as well.



ver fronts on a closet chest are not only but a practical convenience as well.



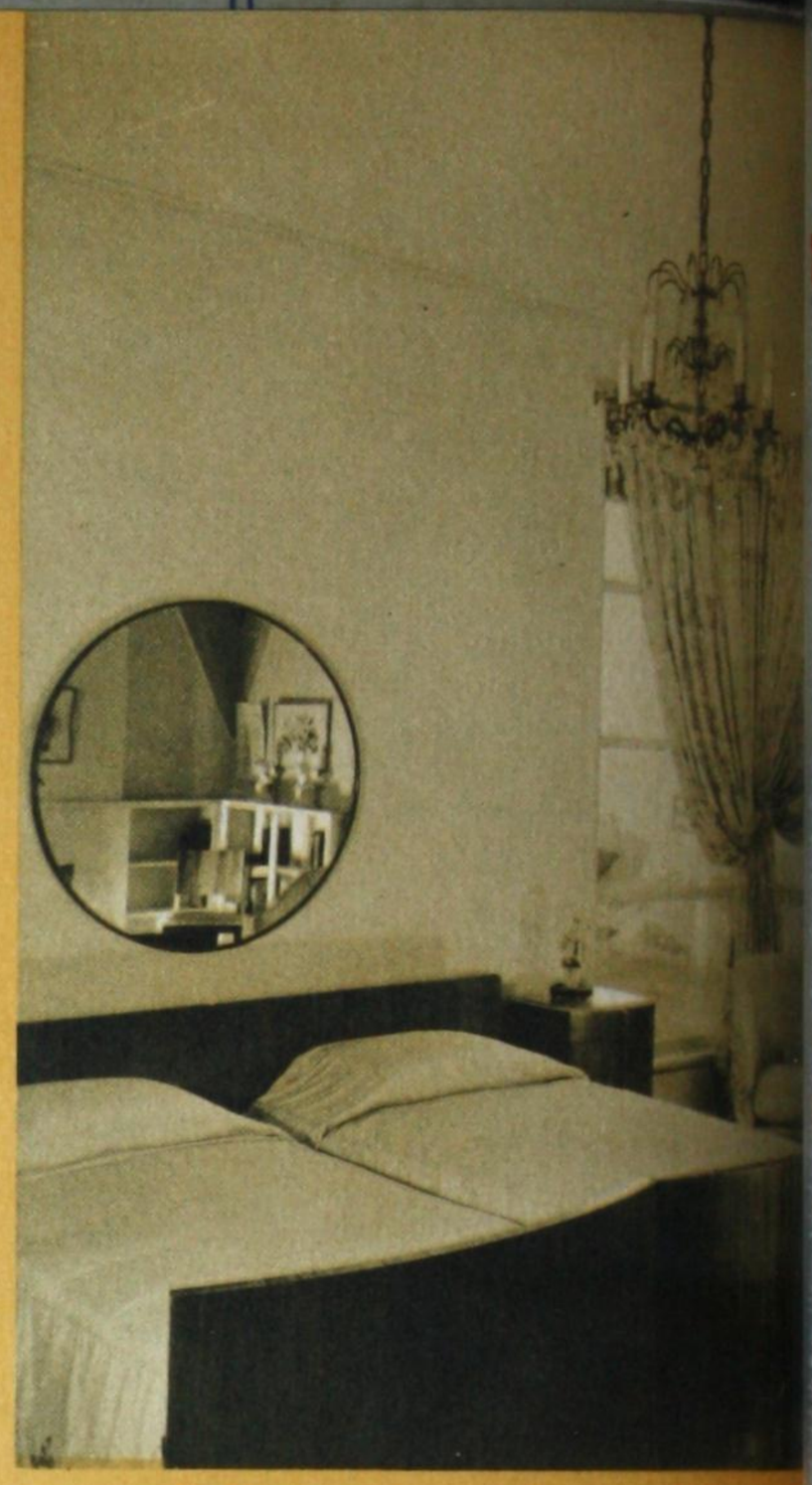
d mirror tops for dressers and vanities he finish, provide an ideal surface and add to the richness of the room.



r screen is one of the most attractive r accessories that can be employed.

decorative media. They are not obscure. We yield to none but the Aztecs and the Incas in our reverence to the sun and to no one at all in our enthusiasm for fresh air. As a result, the contemporary movement in house design is very properly a fusing of outdoors and indoors by opening up the living areas within the walls and by providing more living accommodations outside in the form of terraces, porches, roof decks and solaria. Extensive glass areas logically fit such a philosophy and glass well merits the added emphasis now placed upon it as a basic material of construction. The reflective quality of a mirrored surface, besides its primary utilitarian function as a looking glass, is a most serviceable and effective tool in the hands of a competent decorator. Everyone knows that mirrors increase the apparent spaciousness of a room and brighten dark corners, that mirrors bolster a drooping room by the reflection of lights and by throwing back important colors. These are decorative values no other material possesses. And the range of mirror uses today is almost infinite compared with the limited forms of other days. Backing the glass with something other than silver, for instance, is a common departure. A golden backing in place of the customary silver frequently supplies a pleasing softness. The uses of glass

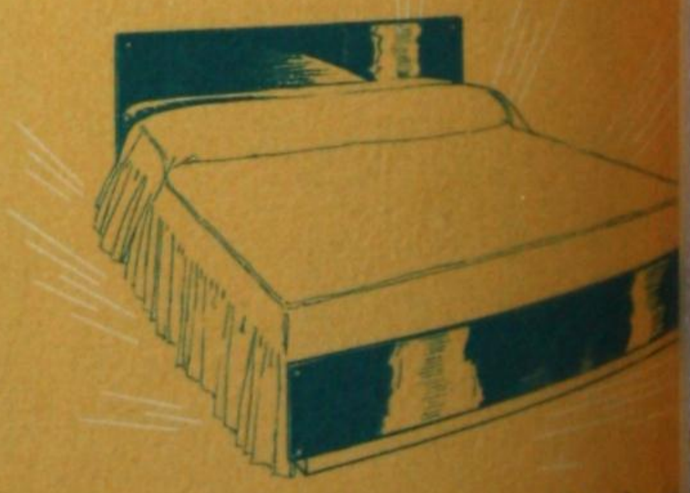
in the bedroom are many and varied. They range from the dominant beauty of a picture window to the cheerful little note introduced by the most incidental accessory in which glass or mirrored glass is used. Remember that this is your room, more than any other room in the house. You share the rest with family and friends and seek in them an effect that will please others as well as yourself. In the bedroom, there is no necessity to consult or consider any taste but your own. Of course, by its very nature, this room calls for a treatment conducive to sleep and rest, to the maintenance of a quiet, peaceful atmosphere, to the more private and intimate life of its occupant. The use of glass should be restrained but none the less generous, for there are few things more appealing to the senses than the broad vistas pictured through generously proportioned windows or the framed reflections of tastefully chosen furniture and fixtures. The decoration of a



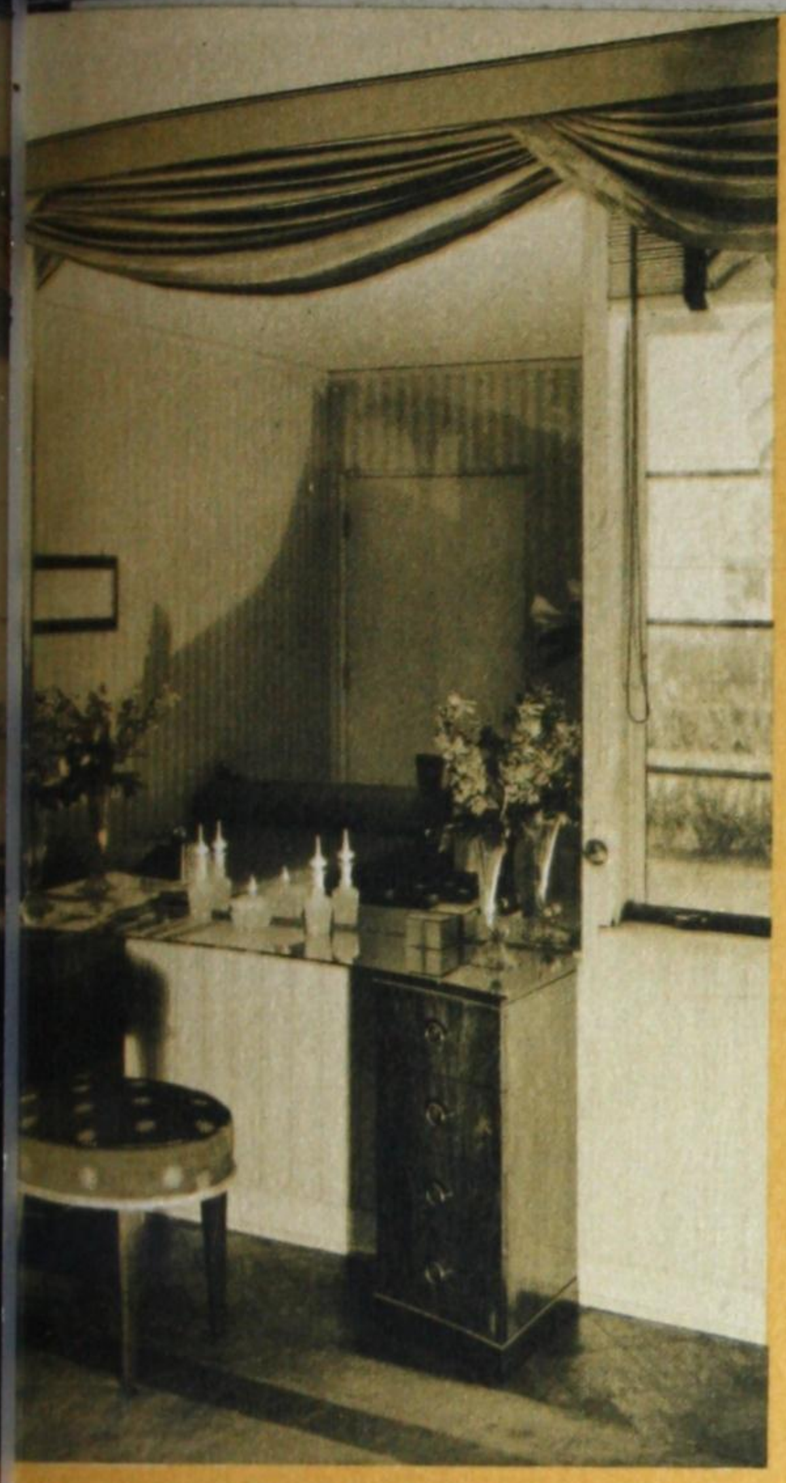
The corner window of this room is effective and creates a spacious a enhanced by the circular mirror abo The beauty and appeal are height clever drapes.



A clever arrangement of doors that open triple mirror is an inexpensive luxury th be appreciated by every member of the



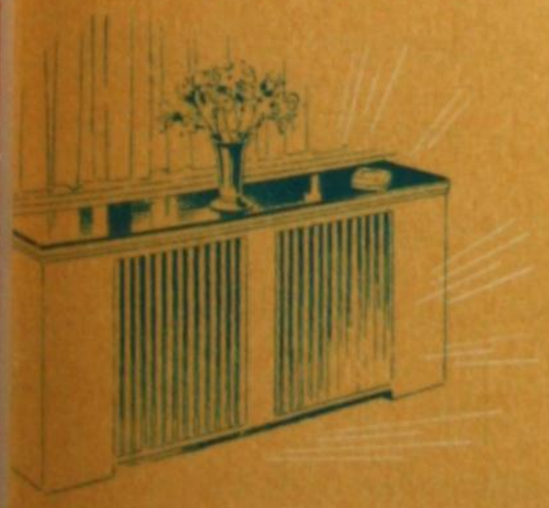
Mirror headboards for beds, either decora plain, are an unusually effective touch that a very superior air to the room.



modern bedroom is much more ilitarian piece of furniture. It le the central motif about which of the room revolves.



veness of a mirrored curtain valance one for thinking of this distinctive treatment.



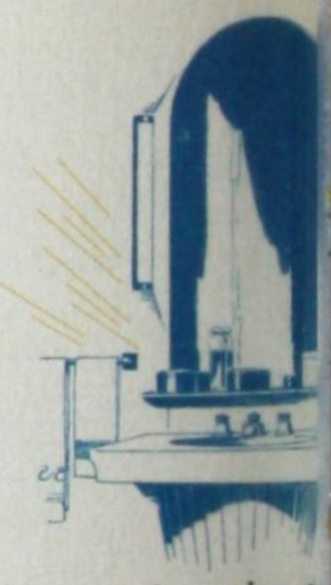
iator covers are another relatively se of the mirrored surface that gives a splendid result.

room is an art that has a language all its own. The individual who understands this language can read between the lines so cleverly that the thoughts and character of a person may be fully told by a single glance at the room this person occupies. The qualities that may be expressed are of the most varied nature. They include not only the personality of the person who lives in it, but the nature of the materials available, the spirit of the times, the atmosphere of thought and tradition allied with the owner and the purpose of the particular room in question. No medium of expression, today, is quite as suitable or as flexible as glass in meeting these many requirements. The intelligent use of glass surfaces, both plain and mirrored, challenges and awakens the alert mentality and at the same time sets it unconsciously at rest, creating a definite sensation of satisfaction and pleasure in a room in which glass is used with considered generosity.

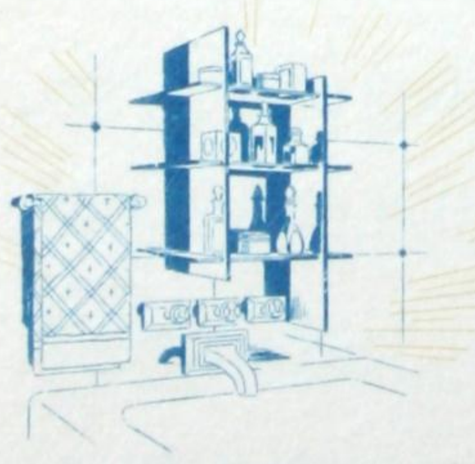
The BATH



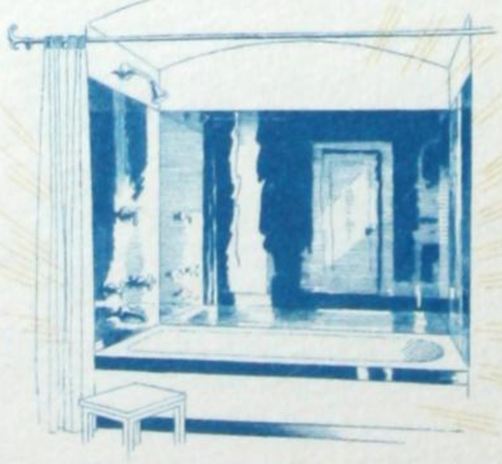
Mirrored panels of polished glass add brilliance and cheerf to this bathroom.



A large mirror above t tory is essential in ev designed bathroo



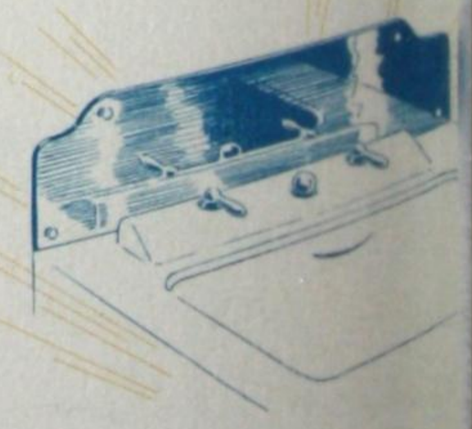
Glass shelving is obviously the thing to use in the bathroom.



Triple mirrors are both practical and beautiful.



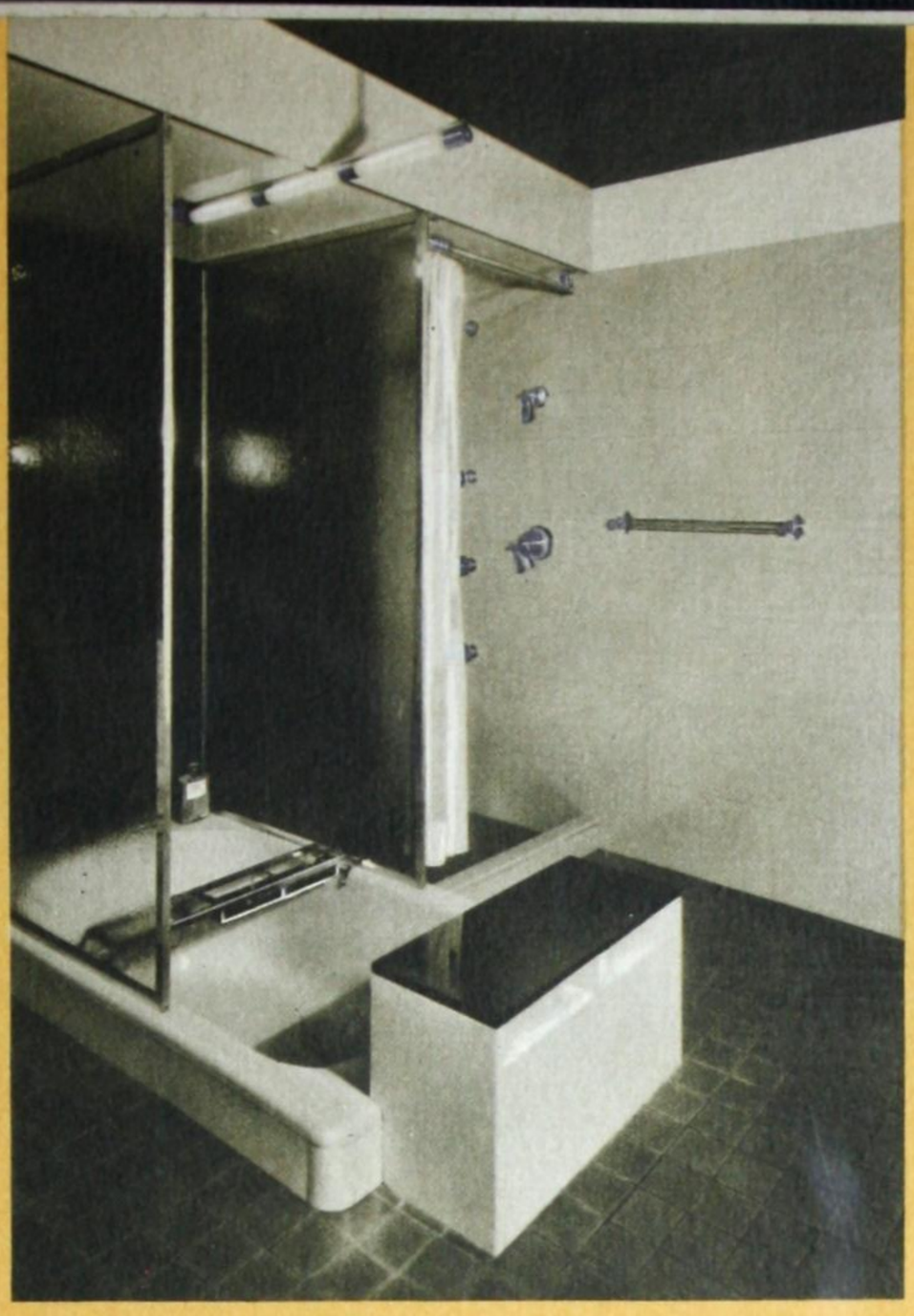
A full length mirror in the bathroom door is desirable.



A glass splash board the basin is attracti lightens the task of cl



med plate glass doors are a nd attractive means of separat- washing and toilet facilities.



Obscure glass screens separating the sunken tub from the shower compartment and the balance of the room.

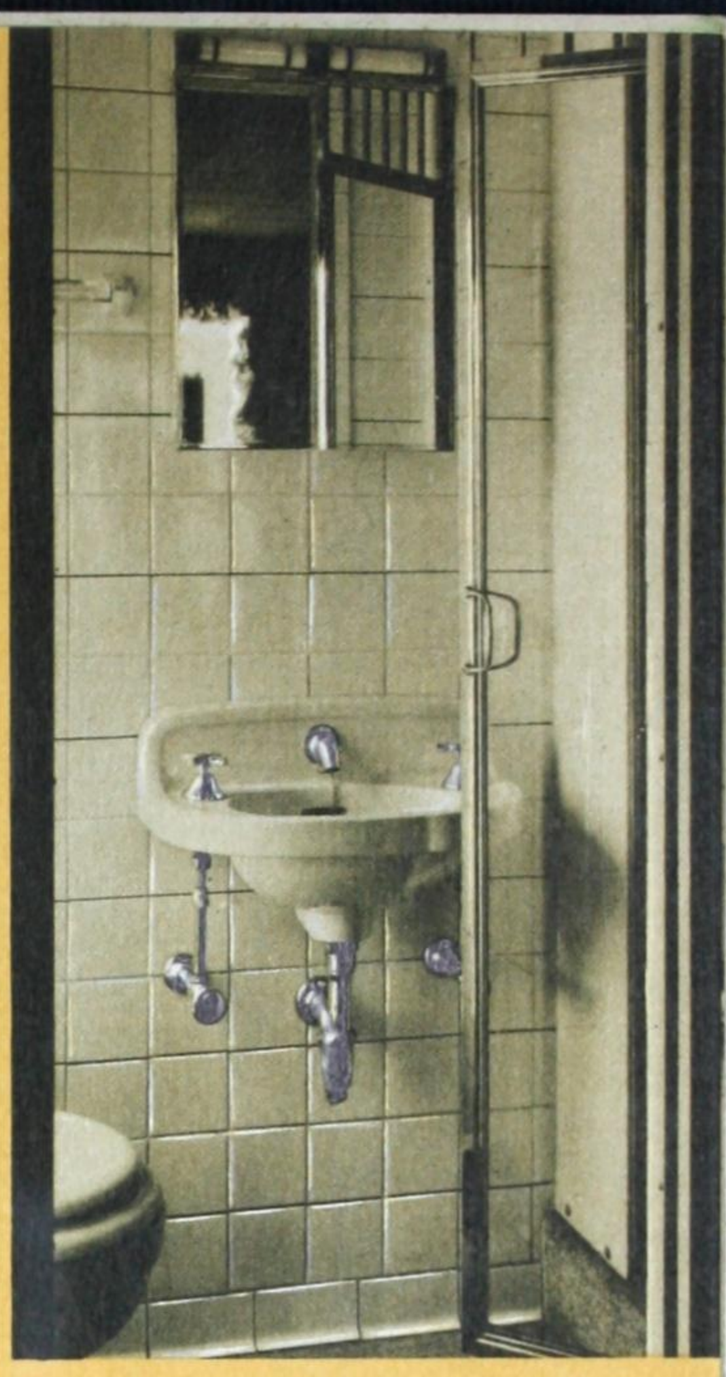


Plate glass doors for stall showers are very practical.

s in the rest of the house, a generous use of both plain nirrored glass has elevated the bathroom to a new of beauty and convenience. Everything is designed ractical utility and, in its design, achieves a rare and ictive beauty of its own. In keeping with modern n the windows are large. The use of one of the al types of blinds or curtains assures ample privacy desired. Another means of attaining this end out loss of light is to glaze the windows with one of many attractive patterns of figured glass. The ior of the bath of today fairly glistens with glass. walls are bright and clean, and easy to keep clean, n faced with structural glass or mirrors. The most orate and intricate floral designs, or panels in color or n silver, may be sand blasted in the glass. A mirror over the basin goes without saying, but the man of the house will be grateful for a large one. The use of new and more sensible lighting fixtures and the proper placement of the mirror in relation to daylight are important considerations that will add greatly to the usefulness of this important accessory. Metal framed doors of polished plate glass are often used to separate the various facilities of the room. The stall shower with a glass door is a great convenience and aids in giving the room a neat appearance. Several other effective uses of glass are illustrated on these pages. Note, particularly, the obscure glass screens on either side of the sunken tub. In the bath, where the lighting is usually brighter than in other rooms, insistence on high quality of the glass will be reflected in added beauty and distinction.

The KITCHEN



A mirror for the maid is a minor investment that is bound to pay dividends in a more satisfied worker.

● Contemporary design rescues the kitchen from the comparatively lowly role it played in former years, dignifies it with new beauty and makes it especially notable for daylight brightness on a par with any other room in the house. This is a logical, practical evolution. Just as modern factories are daylighted with large window areas, so the kitchen, which is in reality, a domestic workshop, is now commonly





es that hang in the window and
ıd down with it are both prac-
tical and attractive.





ırs for cabinet space make it
find what you want and add to
nd span appearance you expect
in your kitchen.



op for the kitchen table is sani-
ctical and decorative, all in one.

marked by unbroken window walls wherever such construction is at all possible. The two examples illustrated are typical of the current trend. The remarkable part is that this great change in the kitchen has come about not through the expenditure of more money, but simply at the expense of a little more thought and ingenuity in planning. The cost remains practically the same as that of the old-style, poorly lighted room that made work in the kitchen a thankless drudge.



Modern Winter Windows are hinged at top and can be opened for ventilation and cleaning. When closed they a dead air space between themselves and the regular window. Dead air space is practically a non-conductor

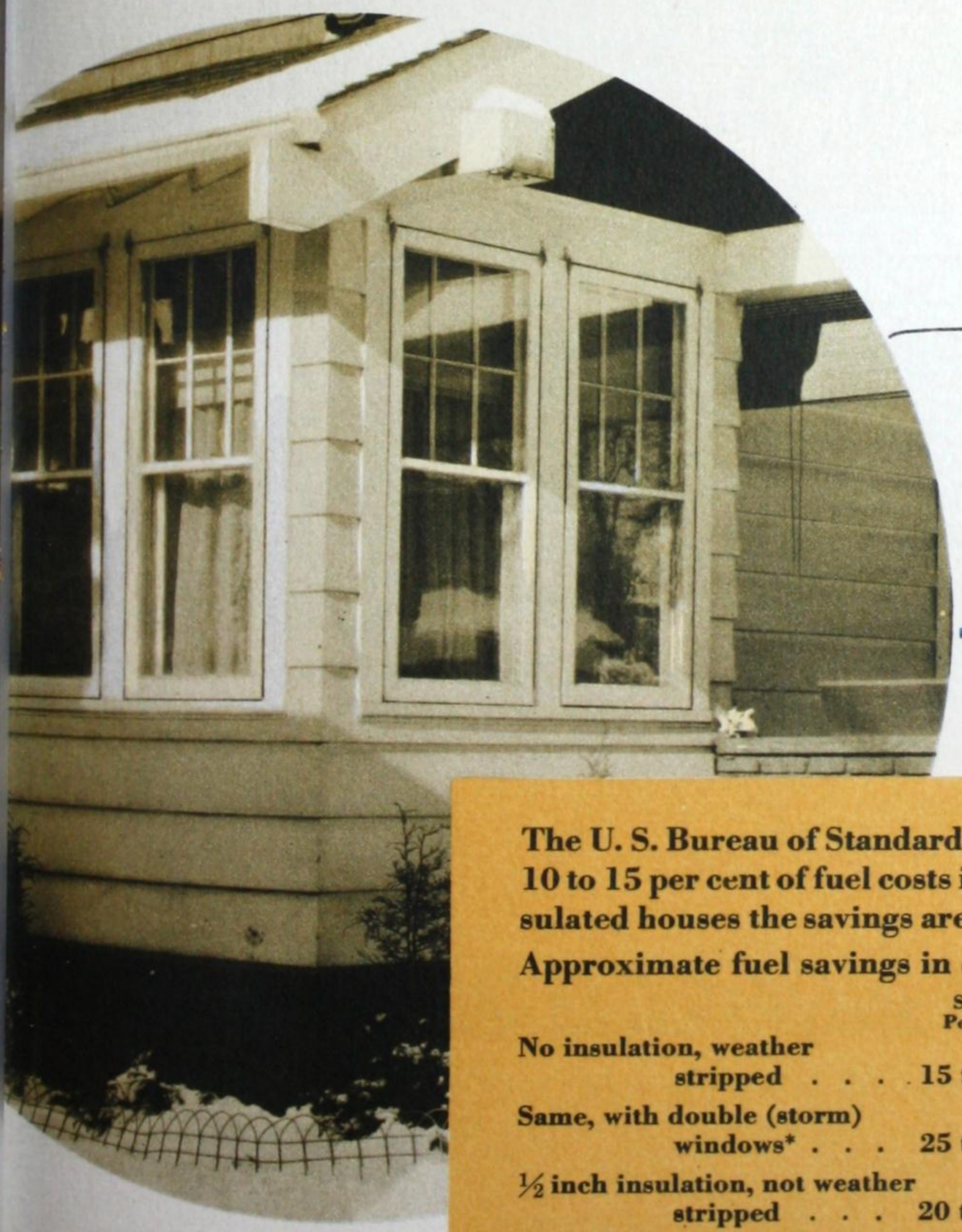
If your windows are not permanently double glaz

BE SURE TO PROVIDE FOR

STORM SAS

● Storm sash, now commonly known as Winter Windows are *extra* windows placed on the *outside* of your regular windows forming a *dead air space* between the panes of glass. Dead air is practically a non-conductor of heat. That is why Winter windows keep the heat inside on the co days, prevent its dissipation through windows and help maintain an even wa within the house. They permit a substa

g in the amount of fuel otherwise re-
d to keep your rooms at a comfortable
erature. If there are children in the house,
er Windows are doubly important,
hey are a most effective means of com-
g the colds, "flu" and pneumonia that
prevalent in winter. Furthermore, well
made Winter Windows last for many years
and practically pay for themselves in the
fuel they save. Permanent double glazing, of
course, is even more desirable than detachable
storm sash and is essential if your home
is air-conditioned. You should not overlook
the advantages of either one or the other.



is an attractive addition as well al means of saving money on fuel.

Winter windows

REDUCE THE COST OF HEATING

The U. S. Bureau of Standards reports that Winter Windows save from 10 to 15 per cent of fuel costs in houses with no other insulation. In insulated houses the savings are reported as being as high as 60 per cent.

Approximate fuel savings in dwelling houses:

	Saving Per Cent		Saving Per Cent
No insulation, weather stripped	15 to 20	½ inch insulation, with double window*	About 50
Same, with double (storm) windows*	25 to 30	1 inch insulation, weather stripped	About 50
½ inch insulation, not weather stripped	20 to 30	1 inch insulation, not weather stripped	30 to 40
½ inch insulation, weather stripped	About 40	1 inch insulation, with double windows*	About 60

Taken from circular of the U.S. Bureau of Standards No.376, entitled Thermal Insulation of Buildings.

* "Double Windows" ARE WINTER WINDOWS

SELECTING THE RIGHT GLASS

The current movement in house design puts a new emphasis on the imp of selecting the right glass for specific purposes. The following brief st outlines, in a general manner, current glazing practice:

"A" Quality Labeled Double Strength Window Glass is generally used in glazing the more modest residences. When Libbey·Owens·Ford Window Glass is specified the home owner is assured that no finer Window Glass is obtainable. However, even in smaller homes where large window areas are used the owner will be wise to specify L·O·F Polished Plate Glass. The sparkling brilliance of plate glass areas add immeasurably to the appearance of a home. You will be surprised, too, at how little more it adds to the cost of your home.

The very finest Polished Plate Glass, which is used almost exclusively in making the finest mirrors, is known as "Silvering Quality". The next quality is called "Mirror Glazing" and is often used for hi glazing work. Most of the plate g in glazing is known as "Glazing Definite requirements for toler thickness and dimensions are s U. S. Government specifications.

Whether Libbey·Owens·Ford Glass or Polished Plate Glass is advisable to see that your architec fications for glass are complete and Below are given specification f L·O·F Window Glass and Polish Glass.

WINDOW GLASS—All Flat Dra dow Glass shall be Libbey·Owens· Quality Double Strength, except wise noted, packed in Cushion Co Boxes. Each light shall bear the Owens·Ford label, indicating stre quality of the glass.

PLATE GLASS—Where polish glass is specified or shown on plan be manufactured by the Libbey Ford Glass Company, and shall b quality and ( ) thickness (inser and thickness) in accordance w Government Standards.

ANSWERS TO "WHICH IS WHICH" ON PAGES 12 AND 13

The large photographic reproduction at the top of pages 12 and 13, were taken with a sheet of L·O·F window glass between the camera and the subjects; those at the bottom of either page, *without* glass between the camera and the subjects.

LIBBEY • OWENS • FORD QUALITY G



EY • OWENS • FORD GLASS COMPANY

anufactures the highest quality Plate Glass for lazing, mirror manufacturing, furniture tops nd automobiles; Flat Drawn Window Glass; leavy Sheet Glass; Greenhouse Glass; Safety lass; and distributes the Figured and Wire Glass anufactured by the Blue Ridge Glass Corpo- ation of Kingsport, Tennessee. Eight factories are trategically located at Toledo, Ohio; Rossford, hio; Charleston, West Virginia; Ottawa, Illinois; and Shreveport, Louisiana. Leading Glass Jobbers, conveniently located throughout the United States, distribute the products of these plants. Direct factory sales representatives are located in New York, Boston, Atlanta, Minneapolis, Chicago, Philadelphia, Kansas City, Detroit, Shreveport, Buffalo, San Francisco, Los Angeles, Cincinnati, Seattle, Denver, Dallas, New Orleans and Suffolk, Virginia. The general offices of the company are in Toledo, Ohio.

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API INTERNATIONAL

CCA

Glass enclosures FOR

SUNSHINE ROOMS • GARDEN ROOMS
CHILDRENS PLAY PLACES
BIRD AND FISH ROOMS
CONSERVATORIES • GLASS GARDENS



Lord and Burnham Co.

IRVINGTON, NEW YORK
DES PLAINES, ILLINOIS
TORONTO, CANADA

A SUN PORCH CANNOT TAKE THE PLACE OF A SUNSHINE ROOM



HO-1

The owner of this delightful Sunshine Room declares it to be one of the most enjoyable spots in her home

YOU ask, what's the difference whether it's a Sun Porch or a Sunshine Room the way we build them, as long as there is plenty of glass on the sides to let the sun flood in?

Before attempting to answer that question, would like to make a remark.

It happens that we build both Sun Porches, and also glass-in existing ones. We do this in addition to designing and building Sunshine Rooms. But they are two *distinctly different things*. Each with a different purpose. One does not at all take the place of the other.

A *Sun Porch* has glass only on the sides. Little more than a roofed-over space, with as many windows around the side as possible.

A *Sunshine Room* as we build it, is a complete glass enclosure, glazed with a special glass which lets in the Ultra Violet Rays. Its roof as well as sides are open to the sun. Not only do you get many times the amount of sunshine, but it gives you a happy free-to-the-sky feeling. A sort of light-heartedness, you can never have in a glassed-in porch.

In the porch you get only the slanting rays of the sun, and then in only a portion of the space. But with our Sunshine Room, you get *all* the sun there is. It floods every inch of it.

Besides its delightful, cheery sunniness, there is the health side. You hear people talk about being run down along the tag end of Winter. Children seem to pick up more colds then, in spite of all precautions. Medicine and diets are resorted to without much avail.

The real trouble generally is, we haven't had enough sunshine. We are low in the vital Ultra Violet Rays. What little we, and our children have been in the Winter's outdoor sunshine, we were so all bundled up, that the Ultra Violet Rays could actually only get to our faces.

What all of us need, is a sunshine place where regardless of weather, the full benefits of the Ultra Violet Rays can be ours.

Almost magically, taut nerves loosen. There's a certain something it does for you, that sets you up, and keeps you fit. You get the vigor and exhilaration that goes with a healthy coat of tan.

One of the fine things about it, is its real pleasure, and the way you can, if you like, absorb all that health while you are reading, sewing, playing cards or what not.

You simply have a Sunshine Room where you can on some of your activities in a natural, satisfying way.

At times when you don't care for all the sun, outside slat shades or inside fabric ones, effectually temper it. We will make the slat ones for you.

Such Sunshine Rooms are particularly congenial places for plants and flowers, which you can have on shelves or in benches around the sides.

It may seem like a rather extravagant statement, but the day is not far off, when a home without one of our Sunshine Rooms, will no more be thought of, than one without a garage. Health and happiness, from the youngest to the oldest, demand it, particularly in this trying half-and-half climate of ours.

So plan for one of our Sunshine Rooms. They don't need to be costly. There's one on page 8 that we can furnish you the complete materials of, for less than $150. It certainly wouldn't cost, under normal conditions, more than $50. more for the foundation and erection. At slight additional cost it could be glazed with the health giving, Ultra Violet Transmitting glass.

THE IMPORTANCE OF

ANNING YOUR GLASS GARDEN OR SUNSHINE ROOM

ALONG WITH YOUR HOUSE

OUR GLASS GARDEN OR SUNSHINE ROOM, like any other room of your home, should be planned for n the original sketches for your house are being n. Made a part of the home and not a hitched on -thought. That is, if looks and economy of building n anything to you.

rhaps you are saying to yourself: "Of course we have a Sunshine Room some day, but there are so y other more important things that must come first." e important? What is anything like as important as h and happiness? That's what our Sunshine Rooms n.

an to build it at the same time you do your home. e that way it will cost less than if done afterwards. iderably less, and will be architecturally a part of house.

it if you can't possibly figure out how to do it now, plan for it just the same. Plan for its location. Plan for it in relation to the doors and windows, so it will be accessible from one, and not interfere with the others — especially any upstairs window.

Plan for it, so the pipes from your heating system can be easily connected up. Plan for it so it will not throw any walk or the flower border out of whack. Such planning means a very definite saving and a better result in many ways.

We are anxious for an opportunity to discuss with you or your architect the possibilities of adding a Sunshine Room to your home. Our services are entirely without obligation on your part.

You can depend on us telling you frankly whether or not conditions are favorable for carrying out your ideas in building a Sunshine Room or Conservatory. We would enjoy studying the possibilities with you or your architect.

See how admirably this Sunshine Room fits into the picture. It's a real part of the house. Still it wasn't built when the house was. But it WAS *planned for.*



GARDEN ROOMS « «

THEY MEAN SO MUCH IN SO MANY WAYS

TAKE THIS ONE for instance. Mrs. W. F. Atkinson of Scarsdale, New York had a breakfast porch in which she had flowers. But they didn't do so well. Leastwise not as well as she wanted.

Furthermore, as a great lover of her outdoor garden, she couldn't reconcile having all her joy go with the return of Jack Frost.

So she had one end of the breakfast room removed, so it would open directly into this wonderful little Garden Room which we designed and built.

You can well imagine the joy she has each Fall, in saving some of her outdoor flower favorites. The down right fun and diversion of growing things under such attractive healthy conditions.

No trouble at all to picture the contentment and re laxing of nerves it must give, to step into that garden spot at any time, and fuss a bit among the flowers.

No more need of asking the doctor to give you some thing for nerves that are "all-on-edge."

Besides all of which, think of looking out directly on those flowers and getting wafts of their fragrance while having breakfast, or serving refreshments to your guests

Notice how light and airy the structure is. It's as near being outdoors, and still being inside, as can be.

HO-3





O-4

What wouldn't you have given as a child, on those long days when it was too cold to go outside, to have had a sunny, happy place like this to play in? Remembering which, are you going to let your children miss what you missed? And for that matter, are still missing?

CHILDREN'S PLAY PLACE

WHERE THEY CAPTURE TAN, HEALTH AND HAPPINESS

YOU MAY BE SKEPTICAL about children getting tanned inside one of our Sunshine Rooms. But s so. The only thing necessary, is to have the roof azed with an Ultra Violet Ray transmitting glass stead of the ordinary window glass. Such Ultra iolet glass used to be a bit costly. But not any longer. When you see your children's healthy Summer-time n so soon fade out, you know it's because of a lack of e Ultra Violet Rays. In the Winter-time with shut indows, actually none of these Rays pass through the dinary window glass.

You also know, that even when playing outdoors in Vinter, your children are so heavily clad, that but little the life-giving Ultra Violet Rays reach their little odies. You may not think that is so. But the scientists have proven it. And the doctors now freely recognize it.

So if you are in earnest about your children's health, build one of our rightly designed Sunshine Rooms. While they are young let it be their play place. When they grow up, the room has lost none of its usefulness. It's not like a play house that is shut up after they are through with it, a rather sad reminder of other days. Put sun suits on your kiddies. Give them a sand box, a cabinet for their toys. Summer tan will stay. Happiness and health will be theirs.

You can have flowers on the shelves all around. Vines climbing up here and there. Hanging ferns, baskets of Oxalis and the like. Have birds too. How they do sing and chirp in such happy surroundings.



HO-5

Here is a charming Garden Room somewhat larger in size. A room in which living goes on under delightful conditions. A place where you can serve refreshments, have a table of bridge. Where you have abundant flowers growing under favorable conditions. It gives you a delightful hint of the many uses of a Garden Room and the joy it can bring to every one of your family, and the friends and guests who share it.

TELLING HOW EASY IT IS

TO HAVE ONE OF THESE HEALTH-GIVING JOY-BRINGING GLASS GARDEN ROOMS

I'T IT SO, that the minute some one starts talking bout scientific things in relation to our health and ›iness, it sounds involved, and we are apt to be tical and bored?

he fact that the ordinary glass that strains out all sun's Ultra Violet Rays, and a special one that lets gh percentage of them through, look just alike, is to sort of make one wonder if it really has merit.

owever, the proofs of the effectiveness of the special a Violet Ray transmitting glass are so conclusive, simply can't help but accept them.

here then, only remains the deciding on how best et its full advantage. How shall you go about hav- one of our Ultra-Violet-capturing Sunshine Rooms? hat's simple enough. You have seen the various ects in this catalog. Any one of them can be glazed ı such special glass. So far as we know this glass no particular beneficial effect on plant life, so it ıld be a needless expense to use it, if you didn't have ıind to the personal health of yourself and others. ıll our glass enclosures of whatever sort, are so far easible, cut and fitted, in part assembled and thor- hly prime-coated at our factories before shipment.

You can buy the materials alone, from us, and with the aid of our very explicit instructions, have the erecting done yourself. Or we will do it for you. Make one contract covering everything.

Depending on where you are located, and the mechanics available, sometimes one way is best, sometimes the other. However, the majority feel there is a distinct advantage in having us do the erecting. But that's a matter which can be gone into later. We surely want you to have the best possible results, favorable to your needs and pocketbook.

Let us know what space you have for a Sunshine Room, or where you would like one of our Glass Gardens located, and you will promptly hear from us. We may need more information before a price can be given. But one thing sure, we will act quickly. You will have the benefit of our four generations and more of building glassed-over structures of all sorts, from the smallest to the largest. So far as we know there is no concern as experienced in this country, devoted solely to designing and building such structures.

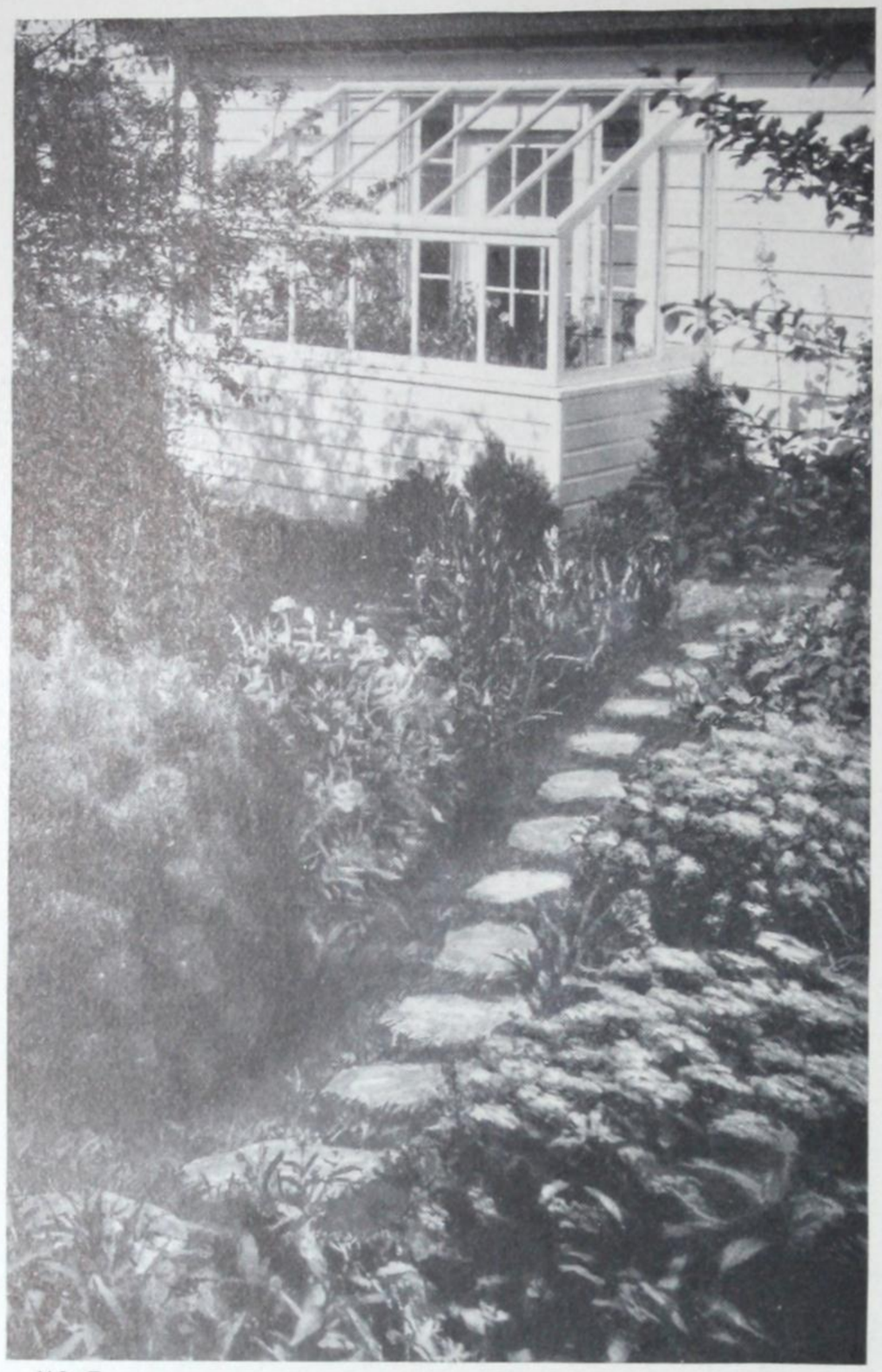
You can put full confidence in anything purchased from us. You are assured of pleasant dealings.

HO-6



By all means grow flowers in your Sunshine Room. They fairly revel in it. What an environment it makes for your children. What a joy to pick Summer-time flowers in mid-Winter!

LORD & BURNHAM CO.
IRVINGTON • NEW YORK
DES PLAINES. ILL., TORONTO, CAN.
Offices in Other Principal Cities



HO-7

A glance at this promptly answers your question: "Is it good looking?"

It is 5 feet wide by 8 feet 7½ inches long. The front bench runs full length of the space. The end ones are removable for your convenience to use or not as you incline. They are made of long-lasting cypress.

HO-8



A CHARMING

MODERATE SIZED ONE

THAT COSTS BUT LITTL

THE COMPLETE MATERIALS for this charming little Glass Garden, all ready for quick erection, including benches and all, cost less than $150. Another $50. should amply cover the cost of putting it up, especially when you consider it is made in four ready assembled panels, with even the glass all in.

It happens the one illustrated opens off the garage, which is a direct part of a Colonial home at Irvington, New York, up in Westchester County. In this case, it is used mainly for growing flower plants for early setting out in the Spring, and for having oodles of bulb blooms all Winter long. And what blooms! Both the man and his wife are great bulb lovers.

When snows come and winds howl, what a thrill does give you to step into a bit of such May-time, a get that good earthy smell, mingled with the fragran of the flowers. There's just nothing quite like it! P ticularly when you have had an intimate hand in brin ing it all about.

We have a special booklet going into all the deta of this particular subject, and giving the personal e periences of a woman in Cleveland who did surprisi things with hers. Best of all, she tells you in deta how to get the same results. Tells you as one enthusia to another. Glad to send you the booklet.

ONE THAT IS

READY-BUILT

FOR EASY ERECTION

HERE IS A NEW WAY to build an attractive greenhouse. The materials are delivered to your rounds in completely assembled sections that have uilt-in asbestos rock walls. Any handy man can put ıe sections together with ordinary home tools or we ın do it for you in a comparatively short time without uss or bother. Either way is practical and economical.

There is no cutting, fitting, painting or glazing to e done—just a few sections to bolt together. Even the oles are drilled for the bolts and the heating pipe is ıreaded and mostly assembled with fittings. Masonry simplified by the Asbestos Rock Walls, only one ourse of concrete blocks is needed as a wall base.

The cost of the Ready-Built greenhouse completely rected is no more than an inexpensive automobile. You an buy it completely erected and equipped with heating system, or you can buy the knocked-down materials fitted for easy erection, with or without the heating.



HO-9

The interior view shows how practical the layout is, with its spacious walk and benches. Note the small amount of space occupied by the boiler.



HO-10

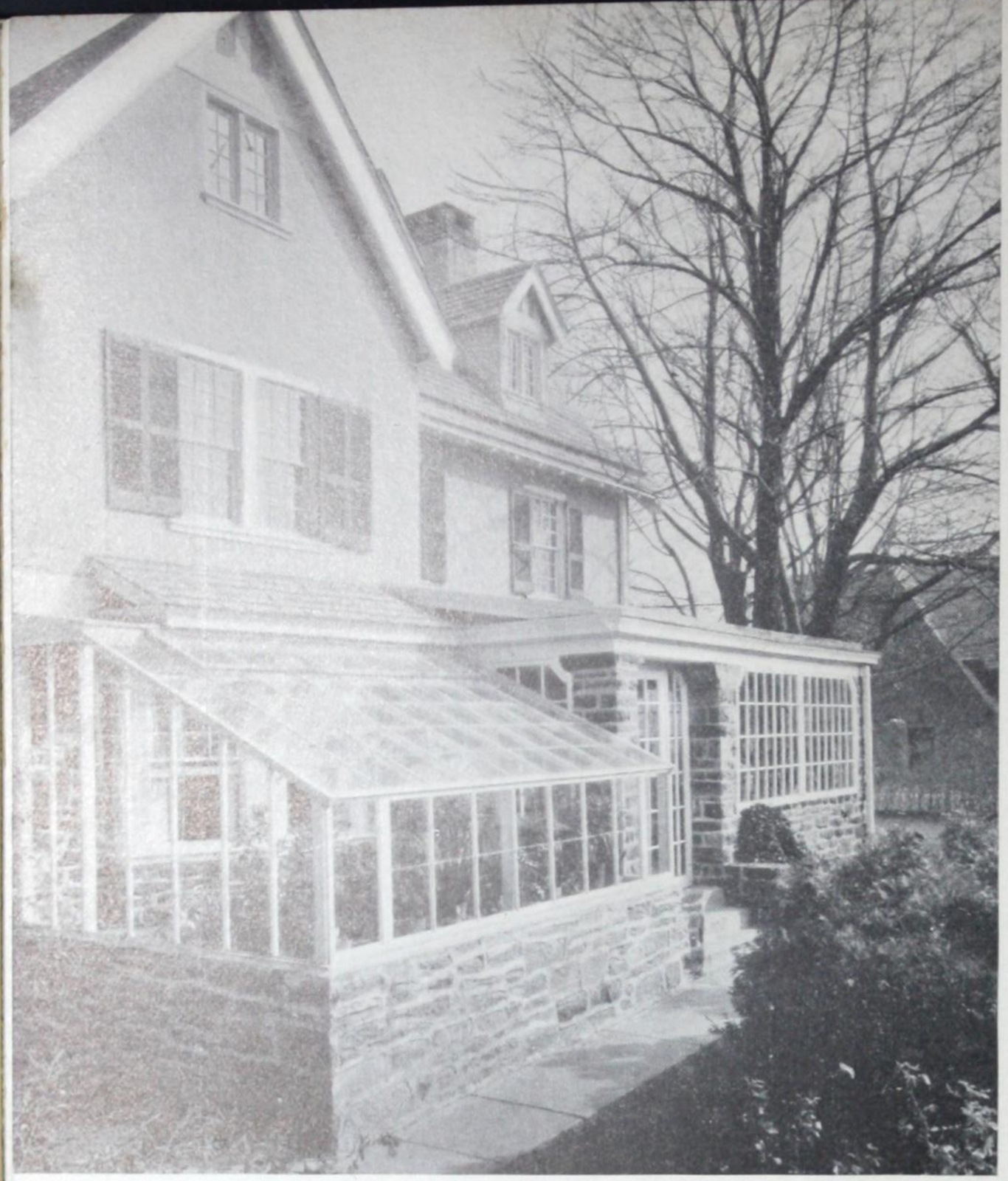
What a jolly little house this is. Don't forget it comes to you in panels all glazed, painted and ready for easy, quick erection. For the money there's no house its equal.

The heat is supplied by a hot water heating system which produces even temperature throughout the greenhouse and whether oil or coal fired, the boiler will be controlled by a thermostat. In the standard house the boiler is placed in a pit slightly more than 1 foot deep but for a slight increase in price the PERKHEATER system may be used which eliminates the necessity of any pit. In either case the space taken up by the boiler and equipment is about 3 by 4 feet.

The heating coils are assembled at the factory. They run the full length under the benches.

The boiler will maintain 12 hour firing periods with nut coal and its coal consumption will not exceed 3 or 4 tons a season. OIL Heat is very satisfactory. Ask for complete information about it.

One of the larger Ready-Built greenhouses is shown on pages 13 and 18. From the exterior and interior views you get a good idea of the attractive effect and abundance of flowers it produces.



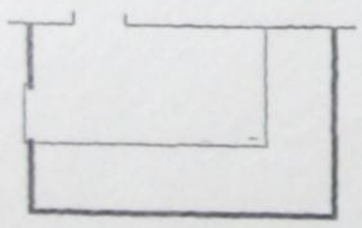
HO-11

SOME ONE OF THESE

MIGHT JUST FIT YOUR NEEDS

This enclosure at the left is practically the same as the one on page 8. About the only difference is in size, and that the foundation below the glass instead of being wood, is stone, in harmony with the residence.

The one below has graceful curved eaves and extra wide glass, as befits its location. Those rolling slat shades on the roof are a good feature. We make them for you.



Here is the bench arrangement in the one at the right. You don't have to have it just this way. But it's the way it is often done.



HO-12

HAPPILY FOR YOU, we have a number of standard designs, some one of which may be just the thing you want. Of course, you don't have to limit yourself to just the ones suggested here. We will gladly design one especially to meet your ideas or to conform to the particular style of your home.

It happens that these four shown, are the ones that are most used. One thing in their favor is, that their design gives you the best of growing conditions for flowers, and the height of light and sunshine when used as sun rooms, children's play places and such.

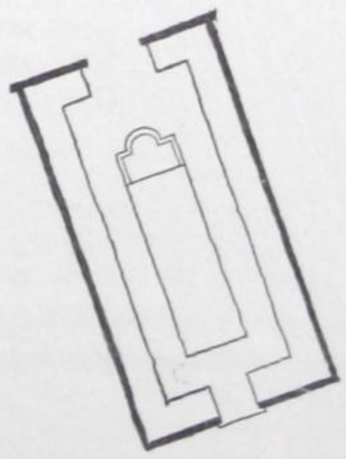
This Sun Room at the right has always been a general favorite. It has a way of fitting in pleasingly with different types of architecture. Its curved roof, pilastered sides and general look of elegance might lead you to feel it is costly. But it is quite to the contrary.



HO-13



The one at the left is really a hobby house. It's more of a Glass Garden, where its owner—a woman—has as she says: "The time of my life playing with my flower friends." As you see, it opens off the enclosed porch. An ideal location.



Plan of the Glass Garden at the left. The plant benches are on the sides and down the center.

HO-14



HO-15

This photograph was taken a year ago, just a week before Easter. Some of the things you see there, I never even mentioned. But we had them merrily blooming in our glass garden, just the same.

THE FUN AND FLOWERS YOU CAN HAVE WITH A GLASS GARDEN OR CONSERVATORY « «

(AS TOLD BY A MAN WHO HAS ONE)

IF YOU WERE RIGHT THIS MINUTE sitting in the chair opposite me, and I started in to tell you all the flowers that can be grown, and the fun that can be had in one of our Glass Gardens, you would be still sitting there two hours from now. Sitting there, and only half the story told.

But in a few minutes I can perhaps touch briefly on it all, giving you a sort of a glimpse of the things that so many folks seem to get the most pleasure from.

DO EXPERIMENTING. The first year, in spite of any attempted help-hints I might drop, you are going to do some experimenting. And have a lot of fun doing it.

You will try growing things which other Garden Room possessors will shake their heads sagely about, and say with a shrug of the shoulders: "Well, I wish you luck." Which of course, means, they think you are more or less "daffy"—mostly more.

But don't mind them. It's *your* Glass Garden. And *your* fun to experiment. And who knows, you may do the heretofore impossible and get a great kick out of it.

WHAT TO GROW. It happens my wife and I have had a Glass Garden on our "up country home," for going on six years now. Maybe some of the things we have done with it may interest you.

OUTDOOR FAVORITES ALL WINTER. Ours was built along in August, and we promptly started planting in 5-inch pots, seeds of the outdoor favorites we wanted to have all Winter. These pots were buried to their necks in the outdoor garden.

.long middle of September we brought them inside, :re in October they started blooming. Among them e that lovely fragrant Golden Gleam Nasturtium. :ral pots of dwarf varieties of Snap-Dragon, Nico- a, Ageratum and Zinnias. The perky, low-growing ıch Marigolds were a joy, and also the dainty nee Daisy and sturdy Stock. Half a dozen Lan- . were in continuous bloom for 3 months. Yellow, te and pink Oxalis grown from finger size bulbs, g in pots, as did the Nasturtiums. Of course, there e Geraniums—everybody wants lots of those cheery endables. The Waxplants—a variety of Begonia— heir bushy, sphere-shape, gave freely of their pink- ;, practically all the season through.

LD FLOWERS. As for the Wild Flowers, we dug Hepaticas, Blood-Root, Dutchmen's Breeches, For- -Me-Nots, white and blue Violets, even to three Jack- he-Pulpits. These were planted in pots, put in cold nes outdoors, covered with leaves and allowed to :ze.

Along in January we brought them in. There in that :den Room in a few weeks, were choice bits of ingtime, that gave us all a great thrill. Some of m went to sick friends. You can well imagine what h a breath of Spring meant to them.

)UNTEOUS BULBS. And now a word — several ising words — about bulbs. Having them in abundance will be one of your greatest delights. Paper white Narcissi and Roman Hyacinths were placed in pots under the bench for 2 or 3 weeks, then brought up into the sunshine for blooming.

After New Years, from their dark cool lodging place in the cellar or cold frames, where they had been making roots since October, we brought in pots of Narcissi, Tulips and Hyacinths. From the second week in January on, we had continuous blooms right up until the outdoors ones started. And what blooms! The King Alfred Narcissi were glorious in their sturdy stems and big blooms.

HELPING THE OUTDOOR GARDEN. In March, the numerous annual seed things we wanted for early planting outdoors, were sown in flats. When our neighbor was only putting in seeds in his garden, we were setting out sturdy plants, some of which were already in bloom.

When middle of May came, all the plants were cleared out of the Garden Room, and some of us who didn't exactly enjoy lying around outdoors in so-called beach suits, took to stretching out inside, using a couple of lawn chairs. It's marvelous the way it relaxes tight nerves.

DO IT YOUR WAY. Of course, the things we grew, may not be what you have in mind at all. Go ahead and have your fun in your own way. Only don't try roses to start with. They are too temperamental.



10-16

"What's the difference," you ask, "between a Garden Room and a Glass Garden?" Well, mainly one of definition. Garden Rooms you sort of live in more. A bit more home-intimate perhaps. While the other is essentially used just for growing things at their best. It's an ideal out-and-out indoor gardening spot. This one happens to be detached from the home, although handy to it. The exterior is shown on page 18.

These Are Worth Your Special Attention



HO-17

The one above is a bit formal in design with an octagonal end. It is most pleasing when attached to a house of the proper architectural type.

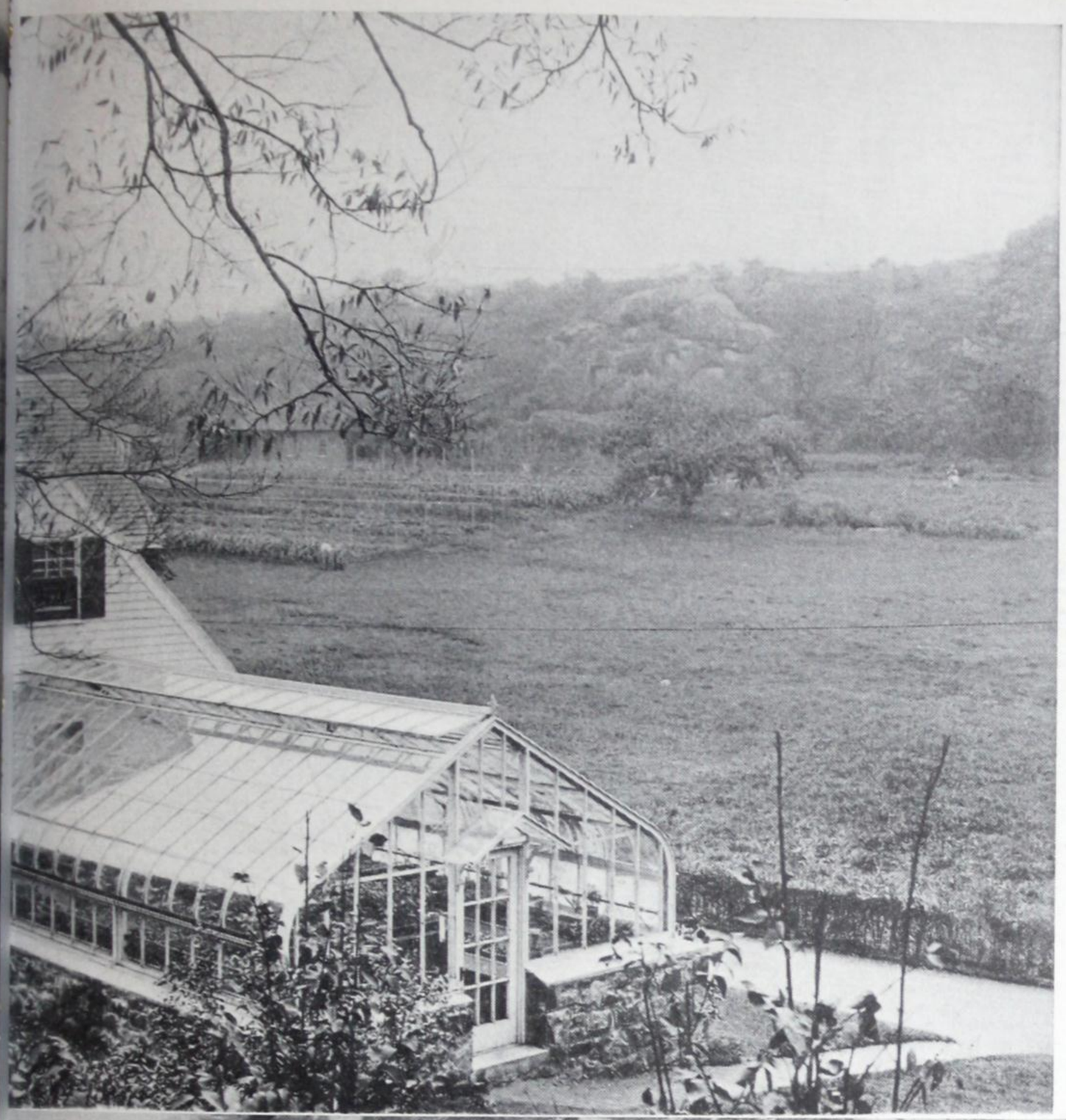


HO-18

Here's one of those lovely sweet - scented Allamandas climbing over the end of a Glass Garden. The exterior is shown on page 20. Recall a New Orleans lady who married a Northerner, and they came to live on Long Island. In coming North she missed her Cherokee roses so much her husband built one of our Glass Gardens especially for growing them. The bushes were sent direct from her old home. Of course, the house was used for growing many other things besides.



HO-19



This one is another instance where the owner wanted the Glass Garden opening off the home, so it would be handy to work in, and so get a full measure of pleasure out of it.

Below, is one of our curved eave Glass Gardens adjoining a garage. It's a good arrangement. The chauffeur, being also the handy-man, looks after it. The same heating system does for both. If they had wanted it, both the heat and ventilation could have been automatically controlled. After which, about all there is left, is to enjoy the fun of gardening under glass.

HO-20



AS A HOBBY

. . . OR THE FUN MADE POSSIBLE WITH GROWING ORCHIDS AND EXOTIC PLANTS

IF YOU ARE ONE OF THOSE who have a notion orchid growing is either so difficult you have to be an expert, or so costly you must be a millionaire, you are wrong on both counts.

The truth of the matter is, they are far from difficult to grow. Neither are the plants costly. That is, of course, unless you incline to go in for the rare ones. But anything that is rare is costly, in any kind of plants.

We can put you in touch with concerns who make up wonderful amateur orchid collections for even so little as 25, 50 or 75 dollars. They will be plants adapte to your purposes. Ones that require but little attentic and that are free blooming.

There is something uncanny about these deep jung plants, that grow in such inaccessible places, and li mainly on air and water. To grow them has a fascin tion you can't describe. *It's a kind and quality pleasure to be had in no other way.* About the on important rule of success is, that they have plenty moisture, warmth and fresh air.

No you don't need a big house for orchids and exotics. This interesting Garden Room opens off the breakfast room. Would say it was about 8 by 12 or 16 feet.



ke another look at that photograph on opposite . Isn't it interesting? If only it were in colors you d see how many and lovely are the blooms. Blooms it is quite the usual thing to last for weeks and s.

ch is especially so of the Cattleyas, with their ex- te flowers of delicate lavenders and deep purples. ers that are so altogether delicate and lovely as to lmost spiritual.

iat realistic interior was simple enough to prepare. a few dead limbs hung with Spanish Moss. The the orchids did. It belongs to a very busy person finds the hobby a great relaxation. He calls it his ve soother" and "grouch preventer." Perhaps a r name would be "contentment insurer."

owever, not all of us get grouchy when tired. Some- s we just need something to do of an entirely dif- it trend. Orchids offer a hobby and field of interest that is practically unlimited. Their romance is as luring as any of the best sellers. You never get through following their trails, so to speak.

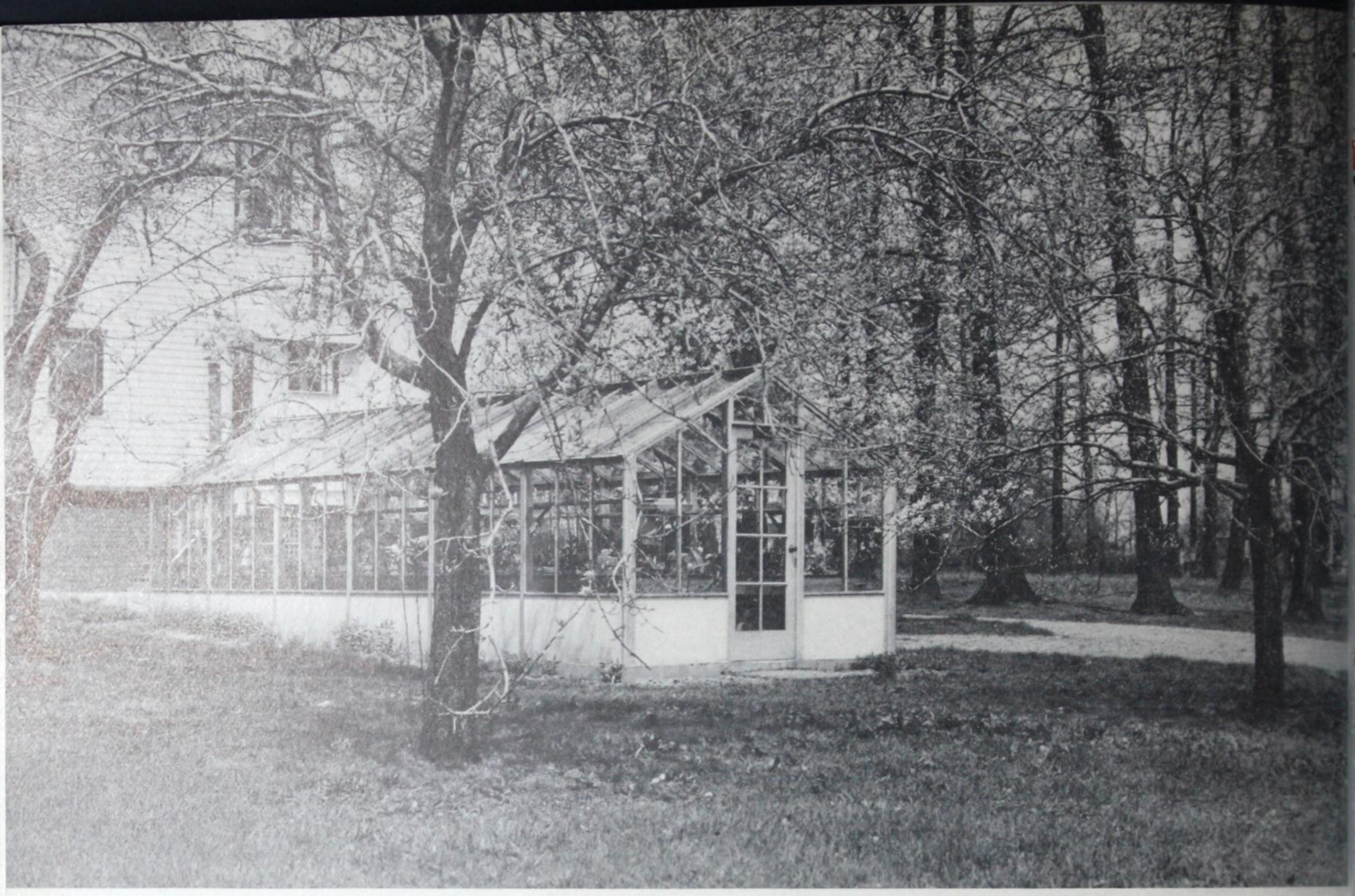
As for exotic plants, that's another fascinating hobby. Have you any idea, just for example, how many distinct kinds of Crotons alone there are? Well we recently photographed for a friend of ours, 22 different groups, each one of which contained at least 15 different Crotons. Endless is their interest. Amazing are their range of colors, leaf formations, and habits of growth.

If the growing of the usual Glass Garden things doesn't appeal to you, why don't you go in for orchids and the mysterious exotics?

We will help you get started. The first requisite, as you know, is the right place to grow them. Amateurs all over the country, have our Orchid Gardens, as well as the experts who have literally acres under glass that we have designed and built especially for them.

Below is an orchid house that was formerly used for general flowers in pots. Nothing was changed in any way, save the adding of slat shading and putting coke under the plant tables to retain the moisture necessary for preserving a favorable humidity.





HO-23

Above is one of our modest cost Glass Enclosed Gardens. It is made up in panels completely glazed and painted ready for quick easy erection. You can purchase the materials alone and have them erected. Or we will do the entire job for you from start to finish. This one is cypress, the "Wood Eternal," with sides of a special good-looking insulating material.

JOYS MADE POSSIBLE

WITH A DETACHED GLASS GARDEN OR GREENHOUSE

UP TO NOW, we have been talking together mainly about Sunshine Rooms, Garden Rooms and such, that are a direct part of your residence.

Now let's take a look at those that are strictly Glass Gardens and used solely for growing purposes. Generally they are detached, as these shown on this and the next two pages.

"But their cost," you say. "We can't afford a regular greenhouse."

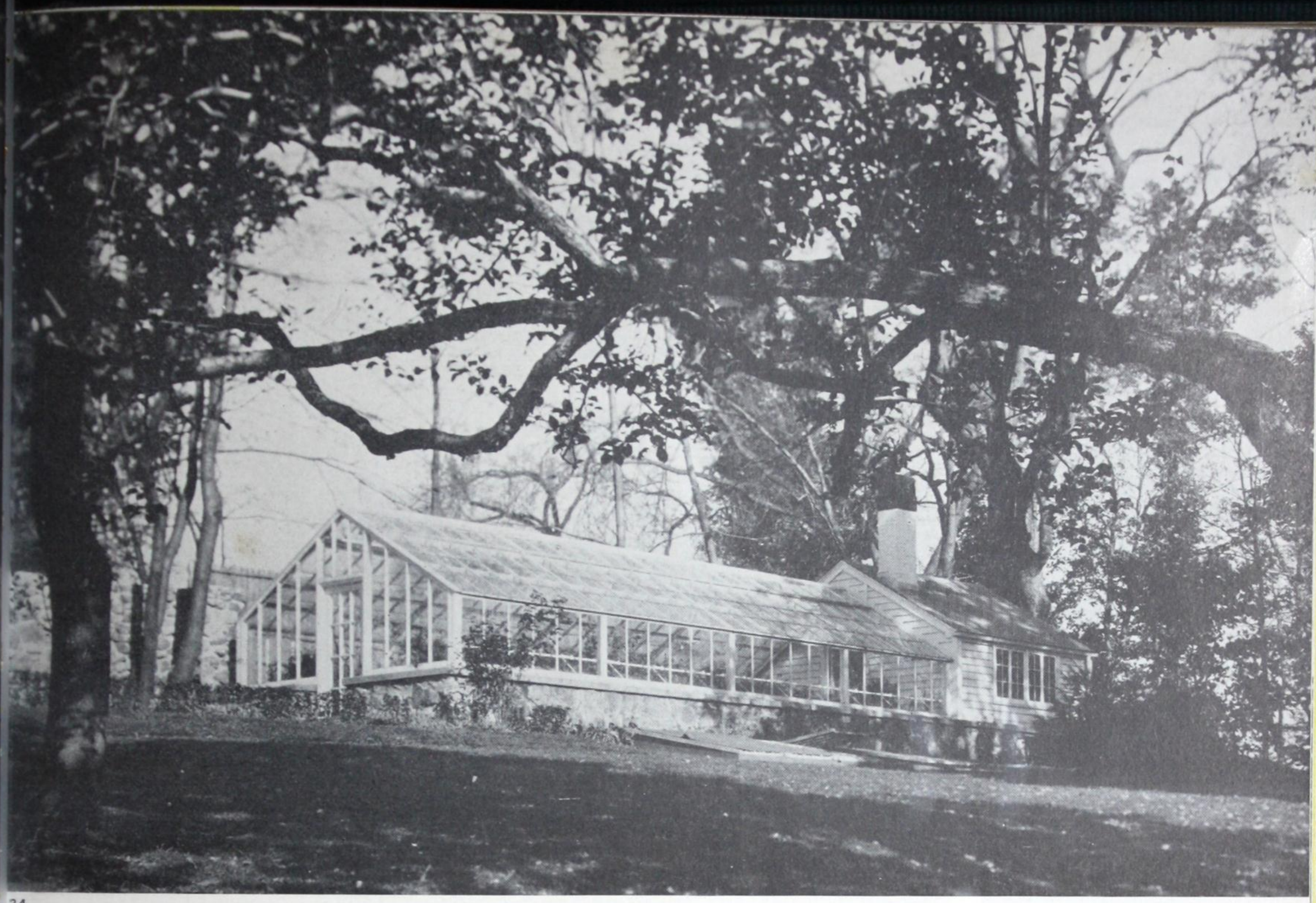
How do you know you can't? Ever find out how really reasonable they are? Take this one above for instance. You see it is a very sizable one. A regular full-fledged greenhouse in every way. Has automatically controlled heat. You can even have it equipped wit automatic ventilation. Still it can be bought for th cost of a moderate priced car.

Now that we have so successfully worked out autc matic heating and ventilating, the detached greenhous will practically run itself, on these two important thing

That means you can go away and leave it, and knov the plants will not be cooked with too much heat, o chilled because of too little. As ventilation is or isn' needed, it will automatically tend to it.

In a greenhouse you can do everything we talke about on pages 12 and 13, besides no end else.

You can go in for not only more things, but grov them to such advantages as to compete at the garde



24

This one is 18 feet wide and 33 long with a workroom 19 x 12. It is located on a private place just outside of Boston. It gives you a surprising number of square feet for your flower growing. You can have it with or without the work room, and in longer or shorter lengths.

s and flower shows. More and more as over in and, it has become one of the great amateur sports. act, it's also one of the social features, just as it has been over here, with so many of our estate owners society leaders.

you have never experienced the thrill, the down- t satisfaction, of making a winning with something vn in your own greenhouse, you surely have some- g ahead of you.

ringing the matter back home again, imagine being to go out to your own Glass Garden and pick for coming guest just the particular flowers you know likes. And then to at any time, send flowers to friends, and well ones as well. After all, what e delightful way is there to remember others?

ight here, it might not be amiss to mention, that over four generations we have been building glass osures of all sorts. That means we are specialists. ı get the full benefit of all those years of experience. ı have the advantage of our knowledge of designs, ıot alone give you the best growing conditions, but ›est fit into your location.

f you want simply a straight away greenhouse, solely what it will produce for you, we have them. Good looking, thoroughly practical ones, like those shown on these two pages.

In turn, if you incline towards their being more ornamental, then those over the page will be more to your liking. In case any of these are not what you have in mind, then we will gladly design one especially for you.

On the Marshall Field Estate at Huntington, Long Island, is a group of our glass gardens in keeping with the size of the place and their social requirements.

On a modest place near by, is one of our rather small ones. When buying it from us, the owner said this: "If you can design and build the largest and finest houses so well, it naturally follows you can build my small one the best it can be built."

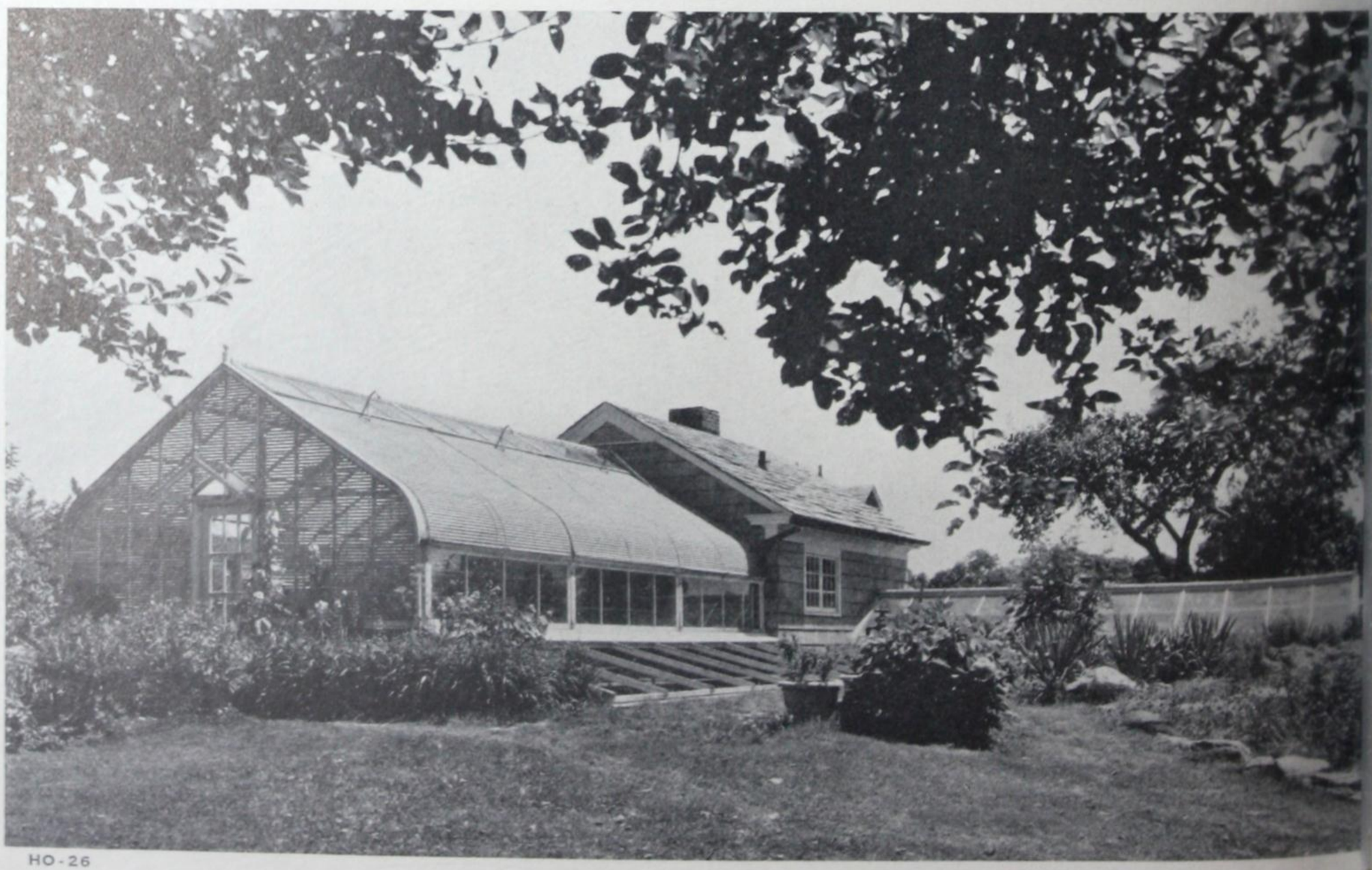
And bye-the-bye, here's a thought. If you have a handy man about the place who sometimes gardens and at odd times drives the car for you, a greenhouse is just the thing to keep him busy in the Winter at no additional cost to you. If you want to grow a wider range of things than we have mentioned, then we recommend a Glass Garden with two or more compartments.

If you are interested in these larger subjects, we will be glad to send you a catalog showing a number of them built in various parts of the country.



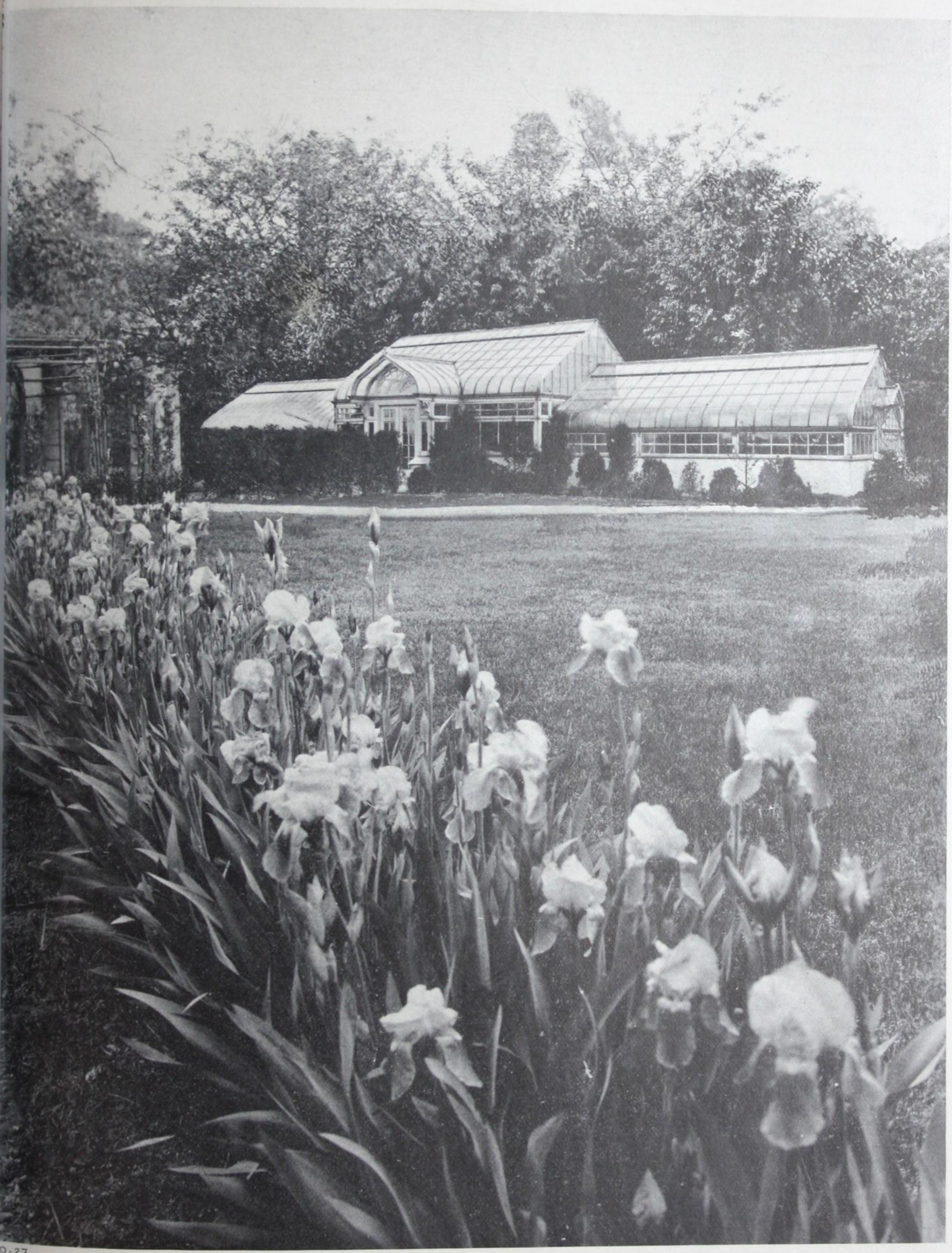
HO-25

Here is one of the more ornamental ones, having curved eaves and an attractive workroom. The glass portion is 18 x 25 feet. Has plant growing benches around the sides and down the center. Gives 245 square feet of flower growing space.



HO-26

This charming one is the hobby of Judge Scudder and his wife, of Greenwich, Conn. The workroom is fixed up to fit their ideas. You should see how attractive and thoroughly practical it is. The Allamanda Vine shown on page 14 is growing in this very Glass Garden. The low roofed house at the right is for violets.



O-27

» *Here you have one of a more elaborate design with a high-sided central house and wings. The center one is generally used for palms and such tall growing things. Back of it, is a narrow one connecting the work room. The plan itself is admirable in every way. Because of its attractive lines and nice balance this subject is a general favorite.* «

» WATER FROLICKING

THE YEAR 'ROUND

. . . IN YOUR OWN

GLASSED-OVER POOL

IF IT WERE ONLY a matter of recreation, then y wouldn't so much miss the fun of swimming a water frolicking when the cool days decreed its endi But it is a question of combined exercise, health and h piness. To have such the year around, becomes rathe matter of common sense.

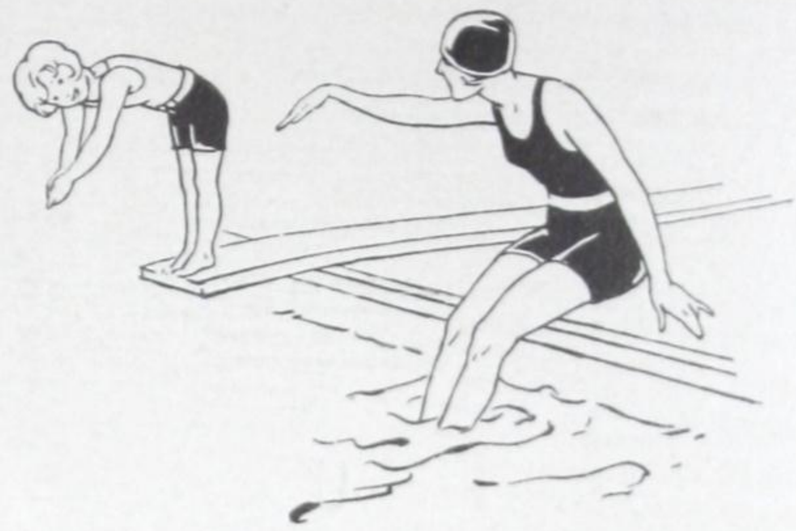
So why not have us either glass-over the outdoor p you may now have; or design and build a glass enclo one for you? One that is the next best thing to bei outdoors. In fact, those who have them, often pre them to those uncovered.



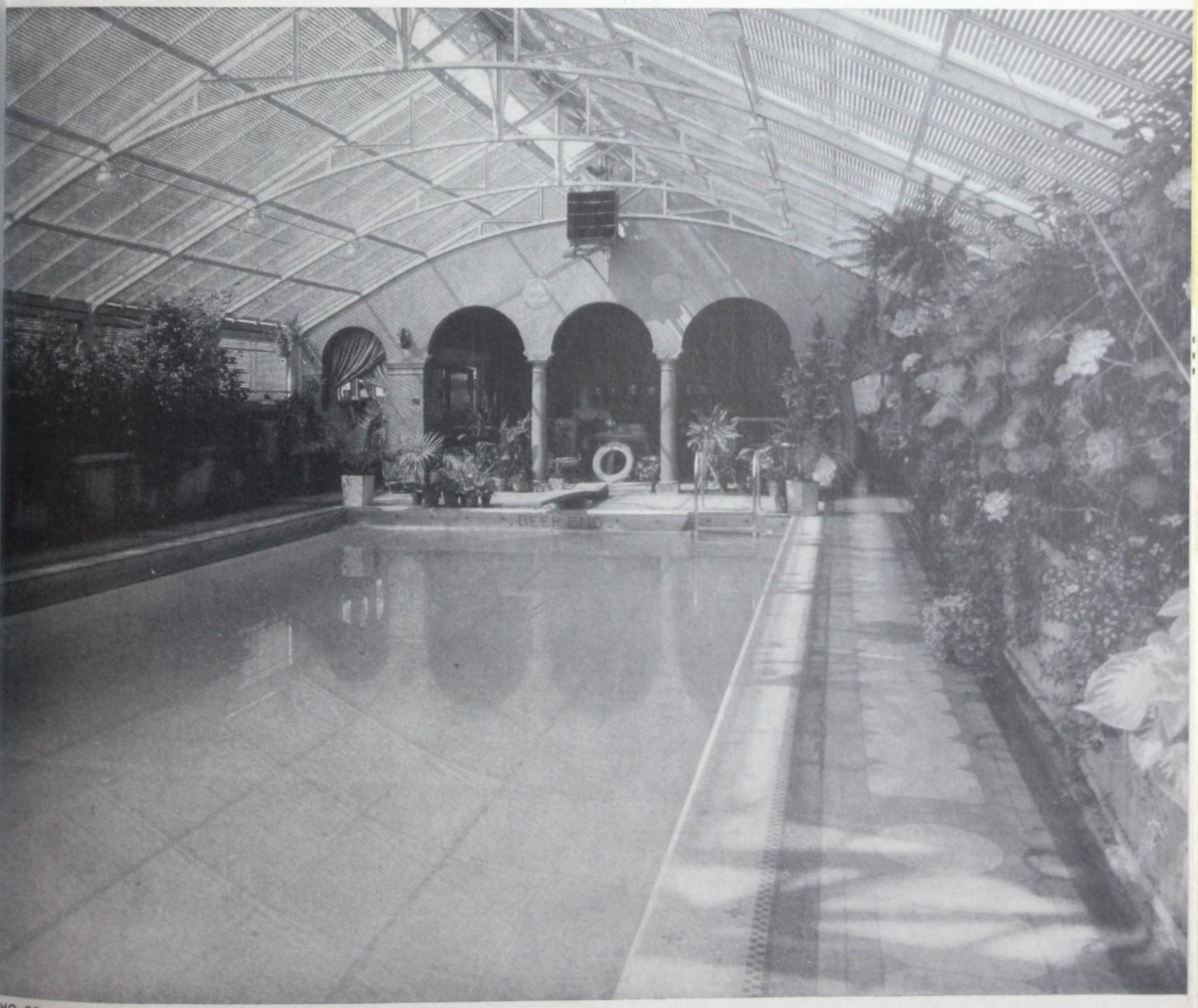
HO-28

This one, located in Toronto, Canada, delightfully combines Sunning Room and Pool.

ıey afford a protection and desirable seclusion. Prevent leaves
falling on the water. Easier to keep clean in several ways.
easily be screened from insects.
ıe ventilation is so arranged as to often make it cooler than
de.
ɔu can have the water filtered so it is as clear as crystal and
ure as the water you drink. If located near the salt water,
can have it pumped into the pool giving you that delightful
laration, adding just that much more to the joys and advantages
aving your own private glassed-over pool.
'e will do the complete job for you, pool and all. Or just the
ɜed-over part, as you may prefer. A sure way to have it right
ll particulars, and hold one party responsible for the whole
g, is to have us do the complete job.
lad to send you a special booklet devoted solely to Glass En-
ıres for Swimming Pools.

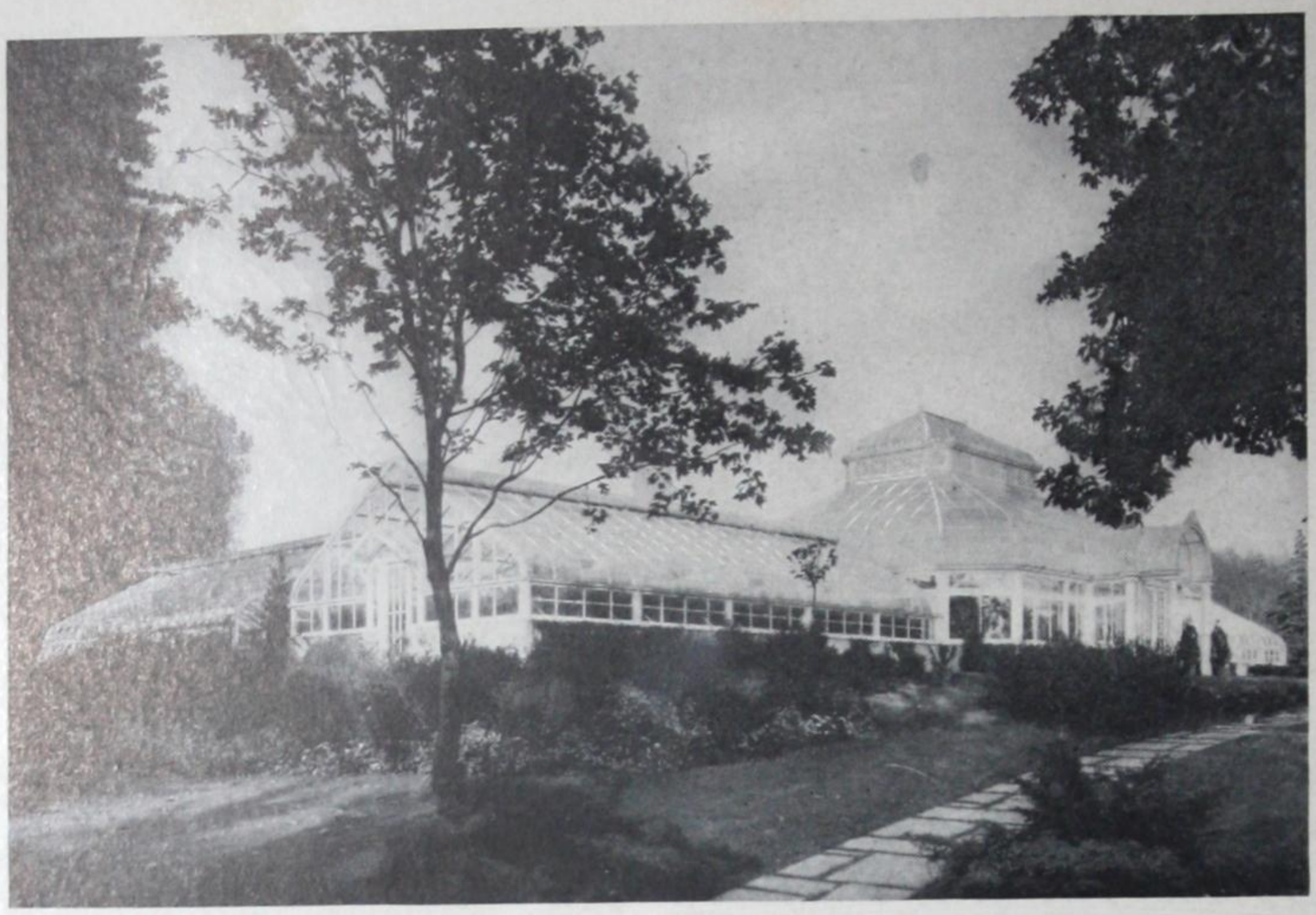


Looking at these two pages you will be impressed with our facilities to design and build glassed-over pools, from the smallest to the largest.



HO-29

This shows you the size of some we have built for private places.



HO-30

At Golf, Illinois, we built the imposing group shown above of a dozen or so Glass Gardens, for Warren Wright. Here are grown to the height of perfection, everything from Violets to Orchids.

Some of the Things Done For Others

AS AN INDEX OF WHAT WE COULD DO FOR YOU

So far we have said but little about ourselves as designers and builders of these various kinds of glass enclosures. Perhaps it is time we did, so you can the better know how we are equipped to best serve you.

In the first place we are the oldest builders in the country of such glass structures. For four generations we have been specializing on them.

For your convenience in securing prompt attention and quick deliveries we have branch offices in several parts of the country. There are three Lord and Burnham factories. One at Irvington, New York, 20 miles from New York City. A second at Des Plaines, Illinois, twelve miles outside of Chicago. A third in Canada at St. Catharines, across the lake from Toronto.

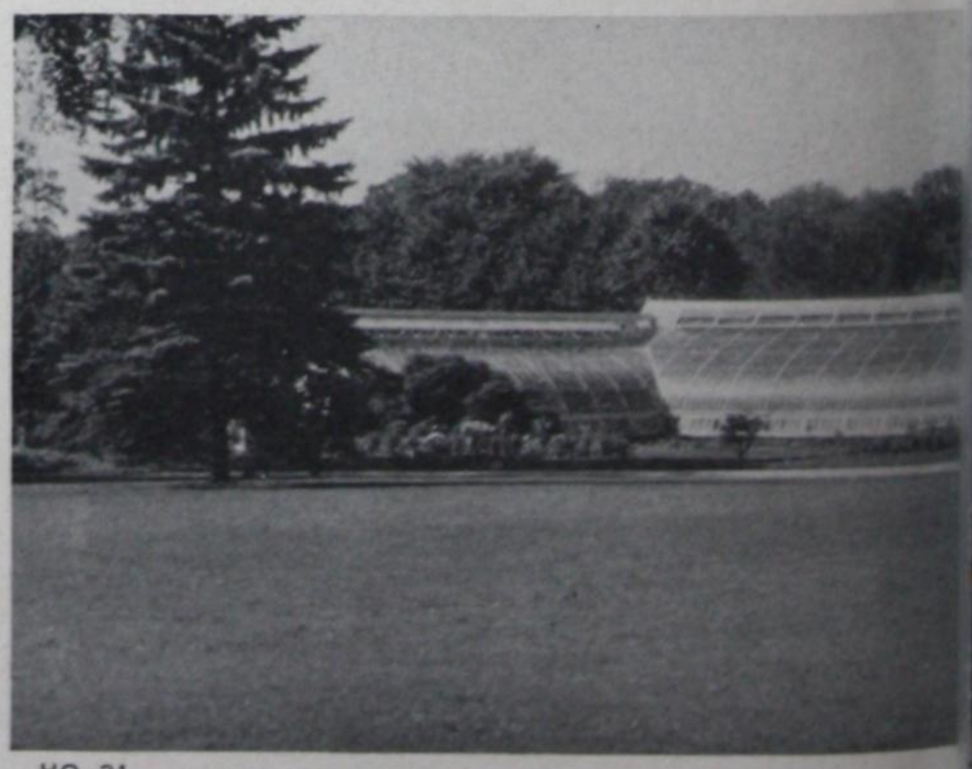
The wood used exclusively in a real Lord and Burnham structure is the best grade of greenhouse cypress, the Wood Eternal. It is prepared by special machines right in our own factories.

We were the first to use a steel frame, making possible to build structures that are so strong yet ligh as to be almost bubble-like. This steel is all fabricate at our own factories.

Every structure is in the larger sense, a built-to-ord job. The advantages to you of hand craftsmanship ha not been sacrificed to the machine age.

So far as possible everything is cut to fit at the fa tories ready for quick, accurate erection on your groun

When it comes to designing, we have our own reg tered architects and engineers. We are always, ho



HO-31

Some half a century ago this huge group was built for Jay Gould, the great railroad magnate, at Tarrytown-on-Hudson. The houses were the first iron-frame greenhouses ever built; today after fifty years, they are in fine condition. This certainly speaks strongly for the permanence of Lord and Burnham structures.

er, glad to work with, or carry out the design of your vn architect.

As for putting up our glass enclosures, we have a oup of trained experts who do nothing else. By emoying them you are assured of having a workmanlike b in every particular.

If, however, you wish to employ your local workmen, e will gladly furnish, at no cost to you, complete ection directions and blue-prints for their guidance. he materials are so carefully prepared their erection is) real problem.

There is a certain advantage to you in placing the mplete contract with us. You can then hold the one ncern, responsible for everything.

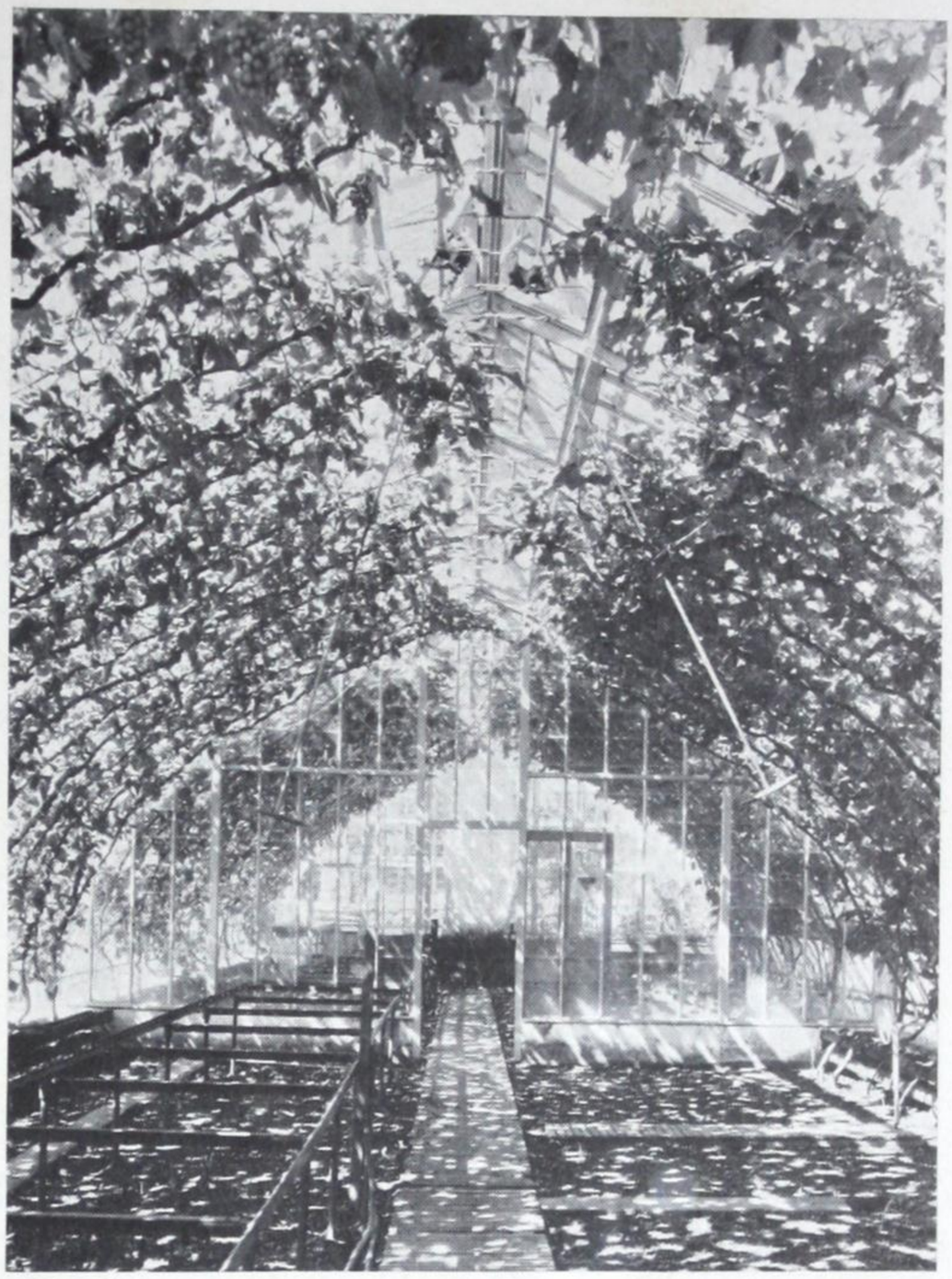
HE HEATING. You can readily appreciate that with) much glass, the question of heating them is important.

When the glass enclosure is part of your residence ften your existing heating system can be employed. or ones of any considerable size, and always with a etached greenhouse, a separate boiler is necessary. For ıch instances, we make boilers designed to do the heatıg in the most dependable, economical way, and to best urn various kinds of fuel. So don't make the error f thinking any boiler will give you a like result.

HE LARGER SUBJECTS. The fact that we have built ıe large groups of Glass Gardens or greenhouses for ıe big estates, parks and Government users, should indiıte to you our standing and the reputation we enjoy. ı reputation extending over four generations of father) son, specializing on building glass enclosures of all ɔrts.

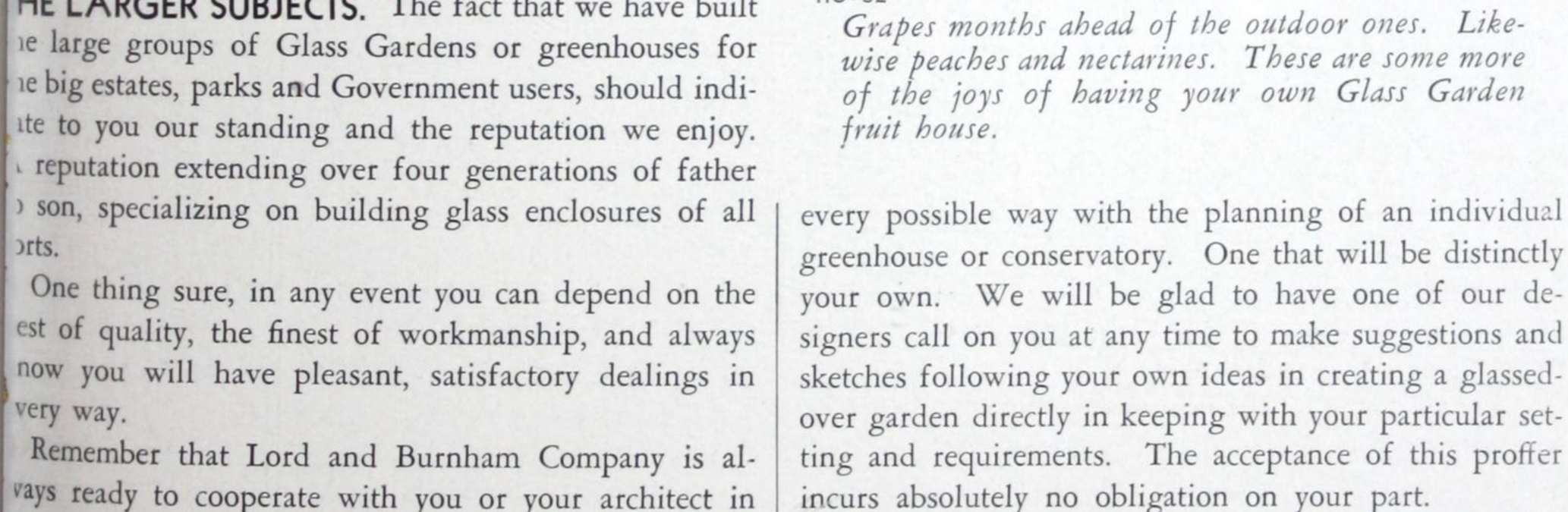
One thing sure, in any event you can depend on the est of quality, the finest of workmanship, and always now you will have pleasant, satisfactory dealings in very way.

Remember that Lord and Burnham Company is alvays ready to cooperate with you or your architect in every possible way with the planning of an individual greenhouse or conservatory. One that will be distinctly your own. We will be glad to have one of our designers call on you at any time to make suggestions and sketches following your own ideas in creating a glassed-over garden directly in keeping with your particular setting and requirements. The acceptance of this proffer incurs absolutely no obligation on your part.



HO-32

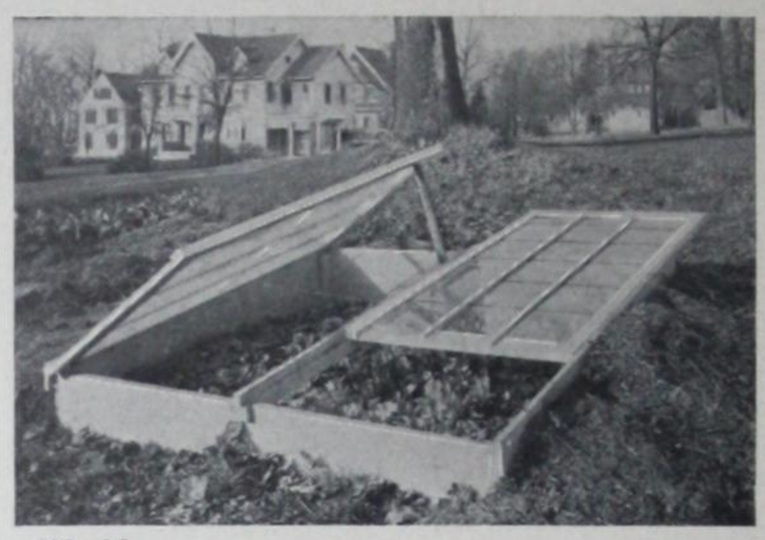
Grapes months ahead of the outdoor ones. Likewise peaches and nectarines. These are some more of the joys of having your own Glass Garden fruit house.



These Cold Frames and Hot Beds

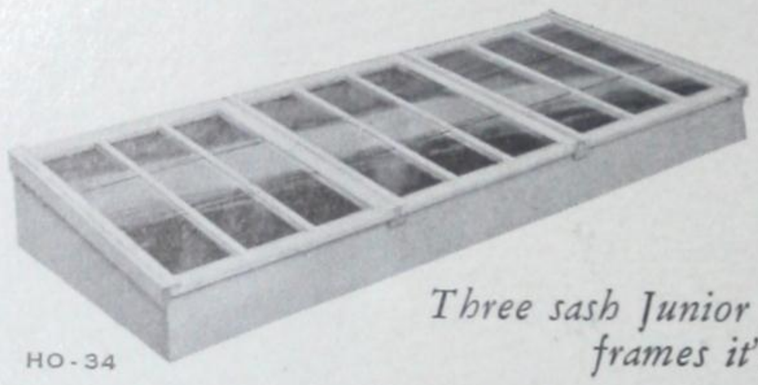
ARE INDISPENSABLE TO EVERY GARDEN

This two sash frame made for either the 3 x 6 feet or 34 x 38½ inch sash, is a very handy size.

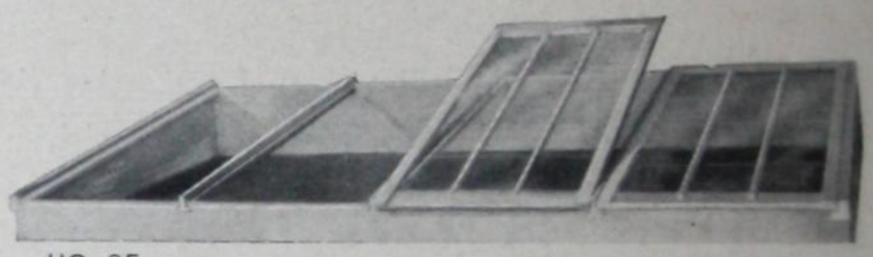


HO-33

They can be easily knocked down and stored out of the way in the Summer.



HO-34



HO-35

Three sash Junior frame complete. Like all sizes of frames it's shipped knocked down.

At the right is a four sash frame for 3 x 6 sash.

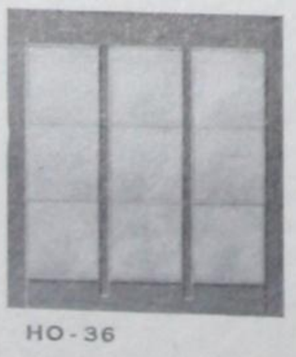
THE USE OF GLASS COVERINGS to hustle along the garden, dates back to the days of the first French Louis. Then they used bell jars, or big bottomless glass bottles which were set over the plants in the garden. From these were developed the present day thoroughly practical frames.

In them can now be grown no end of plants for early Spring setting out. Or for harboring plants from the frost in the Fall. Likewise giving a Winter protection to semi-hardy things. Within their size limitation, you can grow just as well, many of the flowers and vegetables you would in a greenhouse.

For just that reason, even if you do have a gree house, you will also want frames. Want them to relie your crowded benches, so you can grow more and m of the things you so much desire.

The frames are made to fit two sizes of sash. C for the Juniors 34 x 38½ inches. The other for t Standard size 3 x 6 feet. If a gardener is going handle them, then we suggest your having the la ones. For your own use, doubtless the Juniors wo be easier to handle.

We will sell you the sash separate, or with the fra complete, for any number of sash you want.



HO-36

The Junior sash is 34 x 38½ inches. Makes a handy size to handle. Made in the same sturdy way as the 3 x 6.

SASH . . .

OUR SASH are made of no wood but Cypress, because it has been proven no other wood is as good for the purpose. They are ruggedly framed with steel dowel pinned, blind mortise joints. The 3 x 6 sash are reinforced by a galvanized steel band across the center which is let into the wood and securely screwed to it. All joints are white leaded to prevent decay. Furnished glazed and painted two coats.



HO-37

Standard 3 x 6 sash.

Just A Few Owners of Our

GARDEN ROOMS—GREENHOUSES—SUNSHINE ROOMS

From Eastport, Maine, to San Diego, California, our glass enclosures have been built. From the smallest ones to the largest in the world. Enclosures for the small home and back yard, to the most magnificent ones for large estates and parks.

"Because we do the big things so well, we can do the small ones so much better."

Here are just a few for whom we have built:

seph Pulitzer, Bar Harbor, Maine.
aulding Bisbee, Falmouth, Maine.
iversity of Maine, Augusta, Me.
omas O'Plant, Moultonboro, N. H.
uis K. Liggett, Chestnut Hill, Mass.
bert Treat Paine, 2nd, Chestnut Hill, Mass.
illiam Proctor, Fitchburg, Mass.
rs. Oliver Ames, North Easton, Mass.
kes Ames, North Easton, Mass.
ugustus Hemenway, Readville, Mass.
bert Saltonstall, Readville, Mass.
ellesley College, Wellesley, Mass.
C. Burrage, Beverly Farms, Mass.
rz Anderson, Brookline, Mass.
win S. Webster, Chestnut Hill, Mass.
H. Walker, Great Barrington, Mass.
oton School, Groton, Mass.
dfield Proctor, Proctor, Vermont
rs. William Astor, Newport, R. I.
rs. Harold Brown, Newport, R. I.
bert Goelet, Newport, R. I.
rs. C. Vanderbilt, Newport, R. I.
milton Fish Webster, Newport, R. I.
s. Harry Payne Whitney, Newport, R. I.
rs. C. B. Curtis, Bantam, Conn.
dge T. Scudder, Greenwich, Conn.
iss C. A. Bliss, New Canaan, Conn.
H. Pike, New Canaan, Conn.
Hatfield, Jr., New Canaan, Conn.
orge Doubleday, Ridgefield, Conn.
S. Holbrook, Stamford, Conn.
rs. H. S. Chase, Waterbury, Conn.
dney Chase, Watertown, Conn.
r. Adolph Lewisohn, Ardsley, N. Y.
Fredericks, Bronxville, N. Y.
orge Brewster, Brookville, N. Y.
orge F. Rand, Buffalo, N. Y.
ubleday, Doran & Co., Garden City, N. Y.
bert Whalen, Dobbs Ferry, N. Y.
l. Jacob Ruppert, Garrison, N. Y.
bert Goelet, Goshen, N. Y.
muel Untermyer, Greystone, N. Y.
Zinsser, Hastings, N. Y.
rshall Field, 3rd, Huntington, N. Y.
gust Hecksher, Huntington, N. Y.
Finley Shepard, Irvington, N. Y.
W. Hill, Irvington, N. Y.
rnell University, Ithaca, N. Y.
ke Placid Club, Lake Placid, N. Y.
to Nonello, Larchmont, N. Y.
inged Foot Golf Club, Mamaroneck, N. Y.
. K. Werskoff, Mamaroneck, N. Y.
rs. Payne Whitney, Manhassett, N. Y.
ving Brokaw, Mill Neck, N. Y.
sse I. Strauss, Mount Kisco, N. Y.
dolph Zukor, New York, N. Y.
F. Gilbert, New Rochelle, N. Y.
. Aldrich, New Rochelle, N. Y.
olumbia University, New York, N. Y.
scha Heifetz, New York, N. Y.
. Y. Athletic Club, New York, N. Y.
smond P. O'Brien, New York, N. Y.

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A. J. Blair, Tuxedo Park, N. Y.
Arthur Brisbane, Allaire, N. J.
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Howard Heinz, Pittsburgh, Pa.
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Ernest duPont, Wilmington, Del.
Irenee duPont, Wilmington, Del.
U. S. Botanical Gardens, Washington, D. C.
Mrs. Ann Archbold, Washington, D. C.
H. Teller Archibald, The Plains, Virginia
R. T. Amos, High Point, N. C.



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R. J. Reynolds, Winston-Salem, N. C.
Asa G. Candler, Atlanta, Ga.
Edward Gould, Jekyl Island, Ga.
J. F. Archbold, Thomasville, Ga.
Georgia Warm Springs Foundation, Warm Springs, Ga.
James Deering, Miami, Fla.
Carl Fisher, Miami, Fla.
N. D. Denegre, New Orleans, La.
Julius Fleischmann, Jr., Cincinnati, Ohio
O. P. and M. J. Van Sweringen, Cleveland, Ohio
Alice M. Rockefeller, Cleveland, Ohio
A. C. Ernst, Cleveland, Ohio
C. L. Bradley, Cleveland, Ohio
D. S. Ingalls, Cleveland, Ohio
Chas. A. Otis, Cleveland, Ohio
F. B. Patterson, Dayton, Ohio
Charles F. Kettering, Dayton, Ohio
H. L. Thompson, Toledo, Ohio
Walter C. Marmon, Indianapolis, Ind.
Wm. A. Atkins, Indianapolis, Ind.
J. Lilly, Indianapolis, Ind.
C. K. Rant, Allendale, Ind.
Walter J. Kohler, Kohler, Wisconsin
Ernest Mahler, Neenah, Wisconsin
Curt Teich, Antioch, Ill.
E. O. Freund, Chicago, Ill.
Edward Morris, Chicago, Ill.
Spencer Otis, Chicago, Ill.
Max Epstein, Hubbard Woods, Ill.
Mrs. J. Ogden Armour, Lake Forest, Ill.
W. S. Brewster, Lake Forest, Ill.
Louis F. Swift, Lake Forest, Ill.
W. E. Sloan, River Forest, Ill.
Roderick Babson, Riverside, Ill.
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Bert M. Morris, San Francisco, Cal.
W. R. Hearst, San Simeon, Cal.
Golden Gate Park, San Francisco, Cal.
Lady Eaton, Toronto, Ont.
Mrs. Timothy Eaton, Toronto, Ont.
Sir Montague Allen, Montreal, Canada
Harry Oakes, Niagara-On-The-Lake, Canada
R. S. McLaughlin, Oshawa, Canada
University of Toronto, Toronto, Canada
Sir Henry Pellat, Toronto, Canada
G. A. Morrow, Toronto, Canada
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FOR SUNSHINE ROOMS • GARDEN ROOMS
CHILDRENS PLAY PLACES
BIRD AND FISH ROOMS
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Lord and Burnham Co.

IRVINGTON, NEW YORK
DES PLAINES, ILLINOIS
TORONTO, CANADA



LUDOWICI TILE

FOR ROOFS OF LIFETIME BEAUTY

LUDOWICI-
CELADON
COMPANY

TO THE PROSPECTIVE HOME BUILDER

The beauty and advantages of tile as a roof covering can only be hinted at in these few pages. Many shapes and literally hundreds of color and surface effects will enable you to choose just that roof precisely suited to your own design for the home you have longed to build.

Improved manufacturing methods of recent years allow us to place roofing tile within the reach of everyone who builds for permanence. This does not mean that only a limited number of stock patterns are offered for homes of moderate cost—instead, a wide selection in shape, surface and color is available to produce those effects you have in your mind's eye for your dream house.

Occasionally we meet mistaken ideas as to the first cost of a tile roof and the under-construction supposedly necessary to carry it. The framing of the roof structure for tile need be no more expensive than should be used for other reasons. Contact our nearest sales office for information concerning your proposed home in order that you may learn that a tile roof is not a luxury but a valuable asset, especially if you should ever wish to sell your house. Our representatives will gladly consult with your architect and arrange to submit samples in keeping with his plans and color scheme; or, if the house is to be built from your own plans by local contractors, make valuable suggestions as to suitable tiles, furnish specifications to assure proper installation, and have reliable roofing contractors submit estimates.

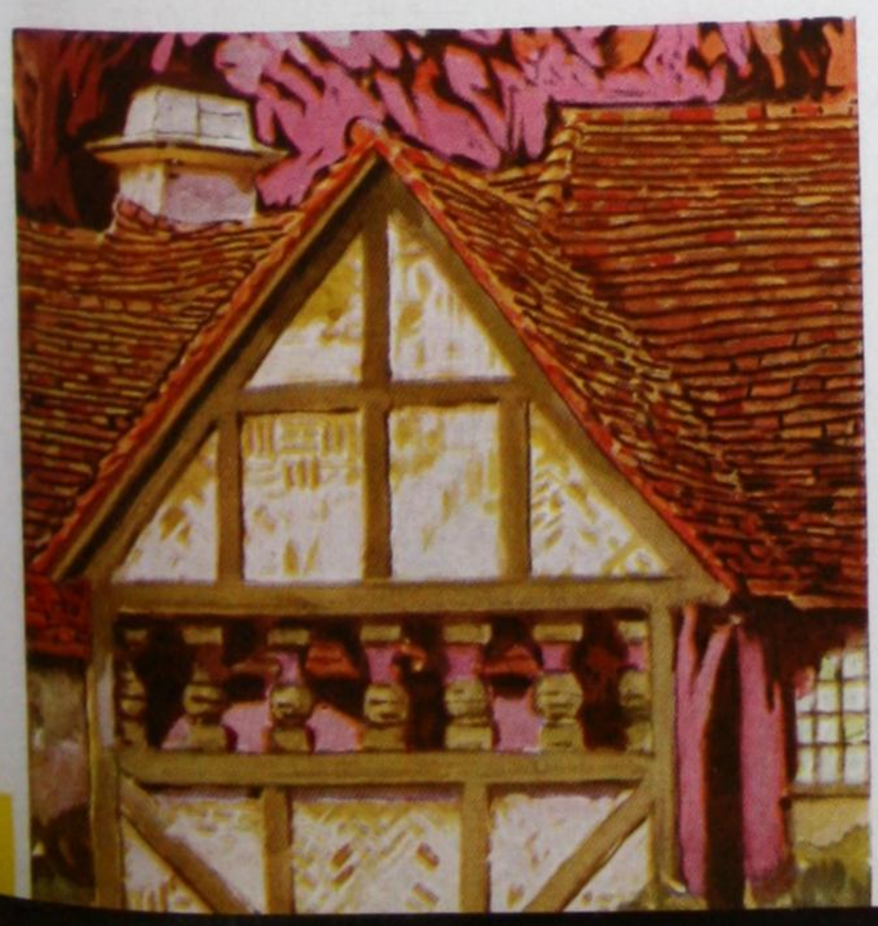
Even though ideas as to your design are not yet crystallized, if you will call on our nearest office to learn the possibilities of tile for your particular roof we may be able to render material assistance.

★ We also manufacture glazed roof tiles . . . . . practically all colors . . . . . in full glaze, dull and matt effects. Their colors are difficult to reproduce faithfully in color printing . . . . . We prefer to send actual samples to those interested.

LUDOWICI TILE



LUDOWICI-CELADON COMPANY



CHICAGO, ILLINOIS • 104 South Michigan Avenue

NEW YORK, N. Y. • • • 565 Fifth Avenue

WASHINGTON, D. C. • 318 Union Trust Building

CLEVELAND, OHIO • • 614 Union Building

OKLAHOMA CITY, OKLA. • 1415 Ramsey Tower









The * Tradition * of

● Since the dawn of civilization, when our primitive ancestors discarded the ineffectual protection of leafy bough roofs, tiles have been the world's most favored roofing material. It is known that tiles, or sun-baked slabs of beaten clay, were employed for roofing in Egypt and Babylonia, and later by the Greeks and Romans.

Man found that tiles would shield him perfectly from the elements; that they kept his house cooler in summer—warmer in winter; that they retained their beauty everlastingly.

There are tile roofs today in excellent preservation more than two thousand years old, and in Egypt there are tiles that were there at the exodus of the Israelites. In China, temples stand today with beautiful tile roofs intact, in the shadows of which Confucius spoke his philosophies. Everywhere in the Orient elaborate and characteristic examples of tile roofing serve to enliven the landscape and delight the eye. Today, as for centuries past, most of the roofs of European countries are of

* Roofing * Tiles

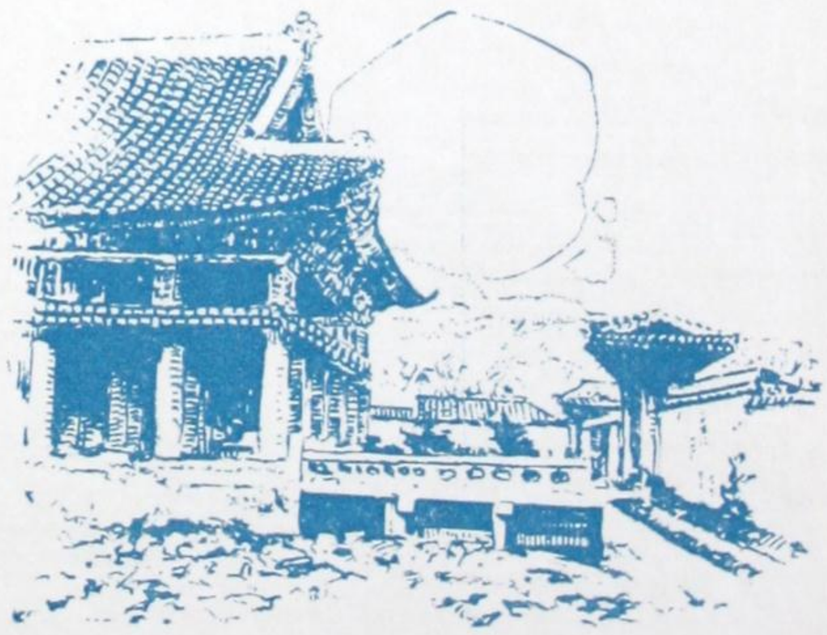
burned tile. Travel the broad highway of the world; along it lies the panorama of vast civilizations made colorful with the ever enduring beauty of ancient tiles.

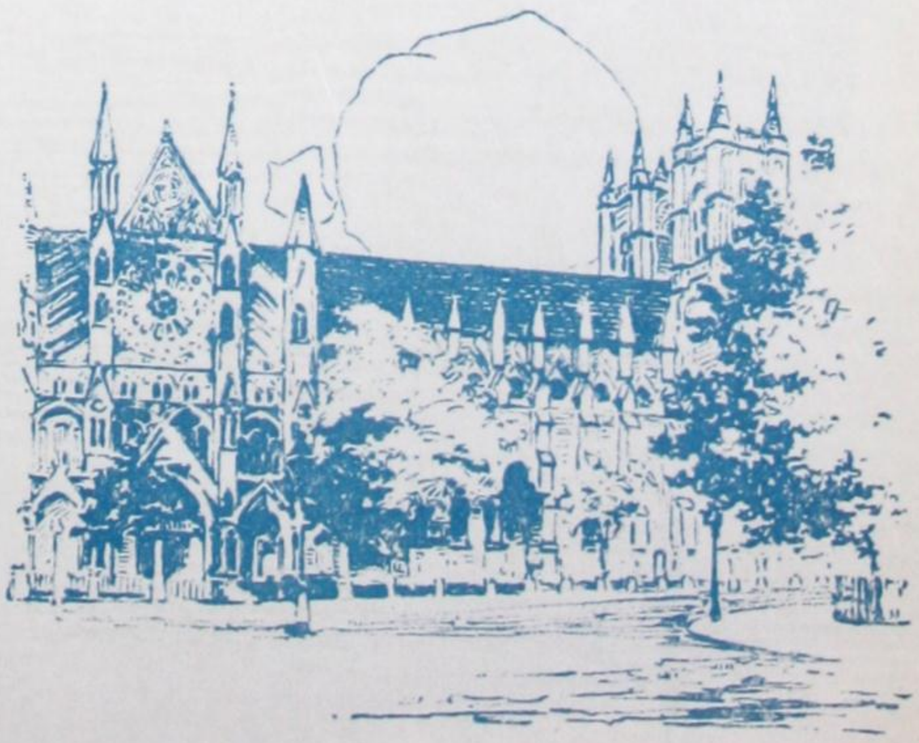
Credit for introducing roofing tile into this country belongs to the old Spanish padres who brought the art of tile-making to the Pacific Coast about the middle of the eighteenth century. While the early forms were crude and rough, the old missions and homes on which they were used are among today's interesting sights of Southern California. The efforts of the Spanish priests on the Pacific Coast represent the first successful tile-making in this country.

Thoughtful builders of homes, carefully considering the value of fine tiles for roofing purposes, and weighing their cost with other roofs, reach the conclusion that a tile roof is not a luxury but, on the contrary, a really valuable investment which will pay dividends in satisfaction and economy for the life of their homes.













CHARM

PROVINCIAL SHINGLE TILES

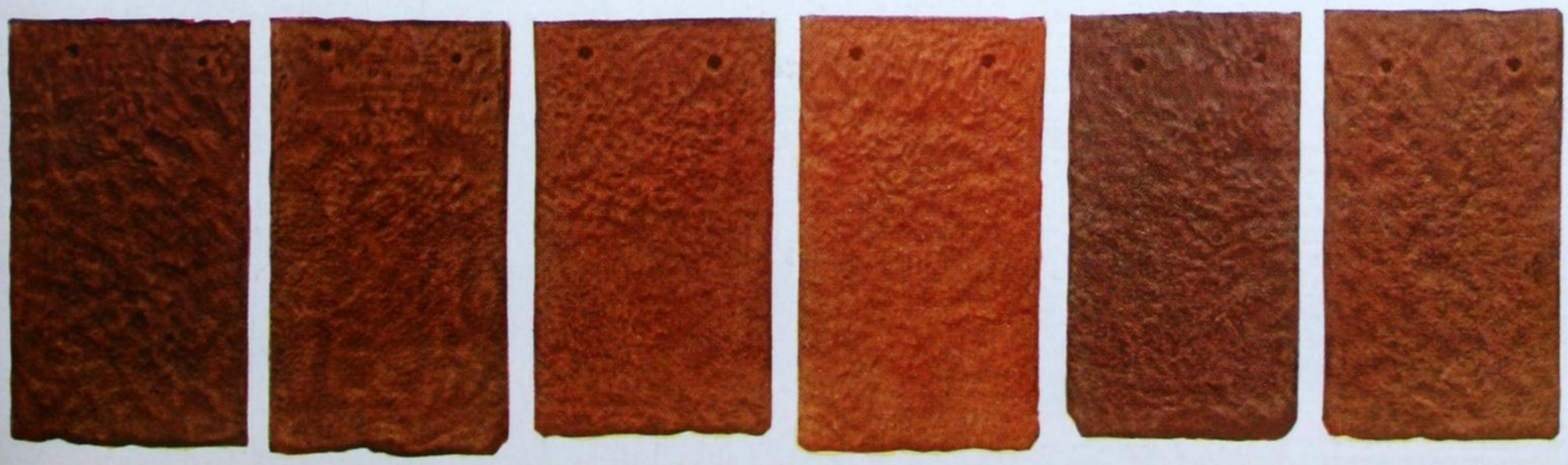
AN INEXPENSIVE shingle tile suitable for the small home of English or French architecture. The surface can be smooth in a wide range of colors—reds—tans—browns and purples or rough in texture with a weathered effect in subdued tones of blacks—dark greens—browns and reds. While not as heavy or rough in appearance as other shingle tiles such as Crude or Brittany, a roof of Provincial Shingle tiles will be permanent—fireproof—protection against the elements—a constant source of satisfaction at low cost.

This photograph of a section of Provincial Shingle tiles shows their interesting texture. The modest cost home shown in the illustration above is roofed with these tiles of enduring beauty.



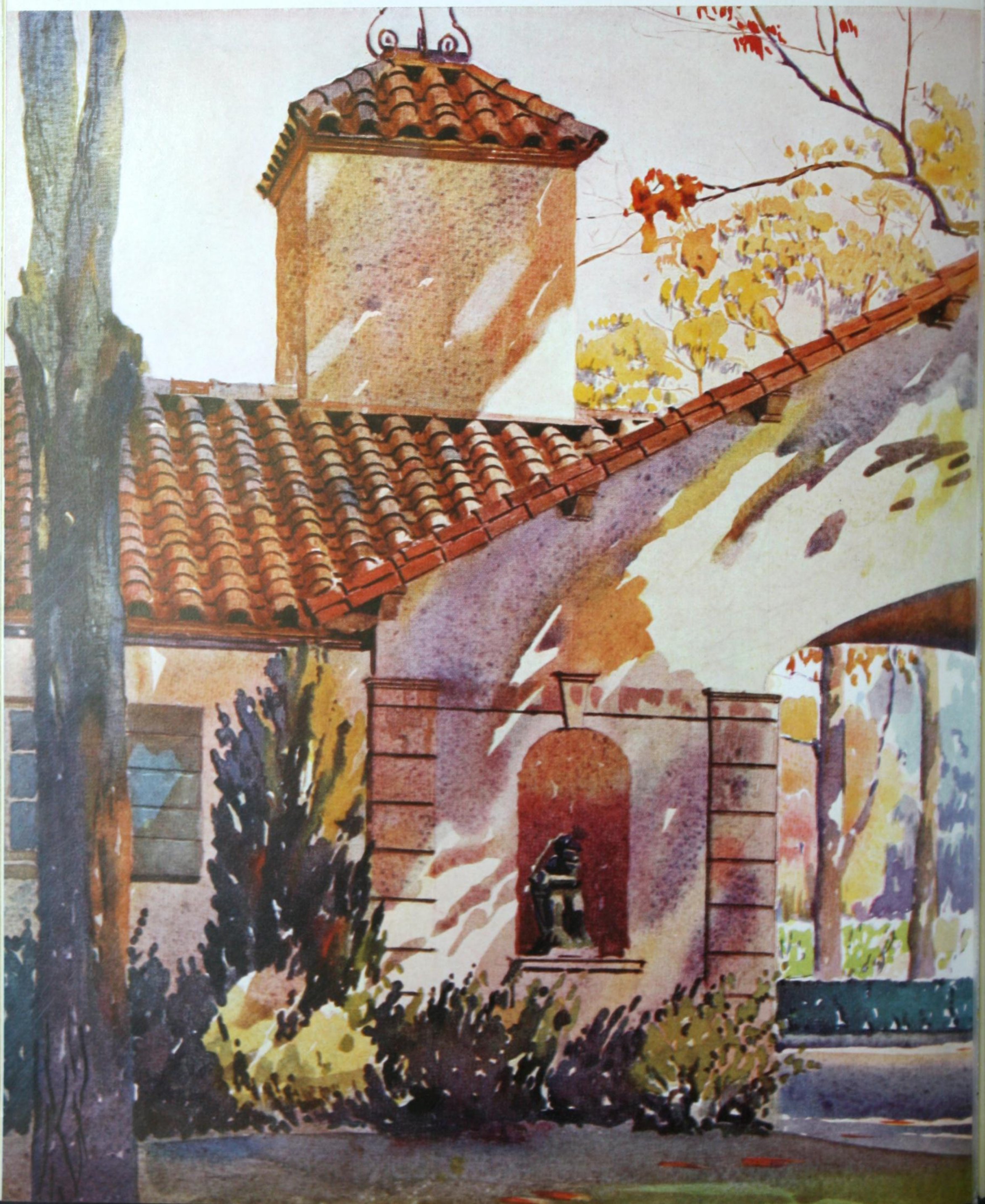
BRITTANY SHINGLE TILES

THE old houses in the Cotswold district of England are the inspiration today for much of our residential architecture and this applies particularly to the treatment of the roofs and selection of appropriate roofing material. Brittany Shingle Tiles give a faithful reproduction of the Cotswold roofs. Their texture and thickness give the same quality and feeling of weight—their colors give the same general tones found in the roofs of the Cotswold district.



LUDOWICI TILE

AN UNUSUALLY LOVELY EXAMPLE OF MISSION TILES





MISSION

STRAIGHT BARREL MISSION TILES pictured above are made in the soft dull color tones of the Mission Tiles used so extensively in romantic Southern Europe. The colors range from light tans and buffs through varying reds and browns to deep purplish shades, resulting in a wealth of color harmony, even surpassing the century-weathered tiles of the Latin countries. These picturesque roofs are well known to travelers.







QUAINT

ANTIQUE SHINGLE TILES

ANTIQUE SHINGLE TILES possess that quality which gives solidity to the low, rambling style of home pictured above. Individuality—distinction—beauty—irregularly shaped—a bit warped, Antique Shingle tiles in soft tones of reds—brown-blacks and dark greens—dull and mellowed as from long exposure to the elements, produce the identical effects which characterize the Old World homes. With this type of architecture, no part of your home is more important than the roof.

LUDOWICI TILE



AUTHENTIC

COLONIAL SHINGLE

AUTHENTIC in style, color and texture, Colonial Shingles faithfully reproduce the effect of split wooden shingles used in early American homes. The identical texture of the weathered wood—the same mellowed grays and greens suggest moss and lichens which adhere to the old shaded wooden shingle roofs. The quality built into Ludowici Colonial Shingle tiles and the inherent nature of the raw material itself assure permanent protection against fire and the elements.





NORMAN SHINGLE TILES are especially adapted to the style of architecture employed in the French farmhouse type of home shown below. No other roofing material could possibly bring out the harmoniously pleasing architectural effect as well as the soft mellow toned shingle tiles.





CHARACTER

CRUDE SHINGLE TILES were developed from samples taken from the roof of a French chateau more than two hundred years old. The use of Crude Shingle tiles will give you the beauty, color tones, and texture of these old weather-beaten roofs of the Renaissance, faithful even to the same pleasing irregularity caused by warpage of the tile in burning.



LUDOWICI TILE



PROVINCIAL SHINGLE

Length	15 ″
Width	7½″
Thickness	½″
Average exposure	7½″x6½″
Average pieces per square	295
Average weight per square	1330 lbs.



BRITTANY SHINGLE

Length	12 ″
Width	7 ″
Thickness	$\frac{9}{16}$″
Average exposure	7″x5 ″
Average pieces per square	412
Average weight per square	1650 lbs.



COLONIAL SHINGLE

Length	15 ″
Width	7 ″
Thickness	⅝″
Average exposure	7″x6½″
Average pieces per square	317
Average weight per square	1600 lbs.



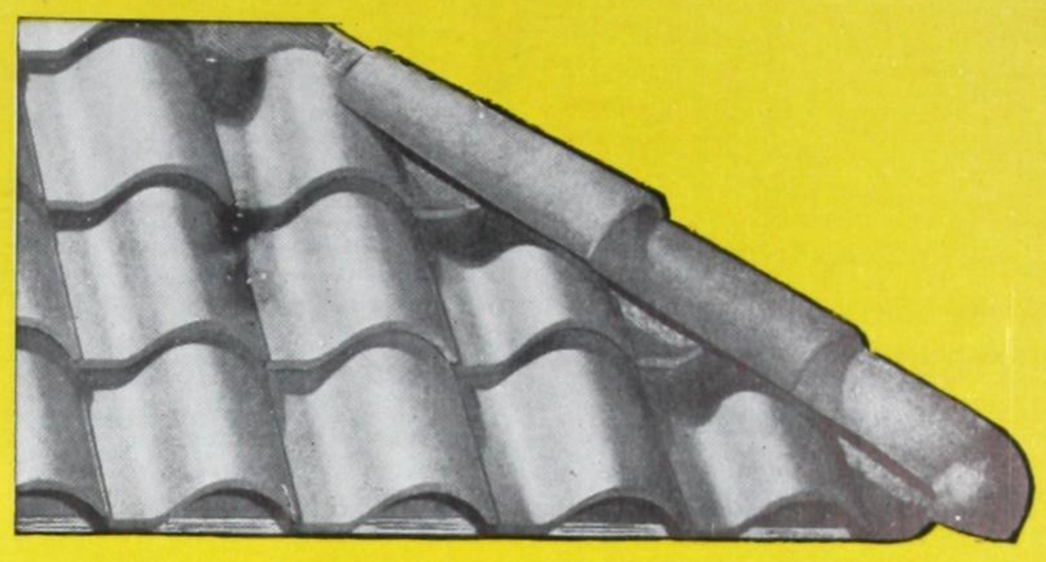
NORMAN SHINGLE

Length	12 ″
Width	7 ″
Thickness	$\frac{9}{16}$″
Average exposure	7″x5 ″
Average pieces per square	410
Average weight per square	1360 lbs.

LUDOWICI TILE

SPANISH

Length ..... 13¼″
Width ..... 9¾″
Average length exposure ..... 10¼″
Average width exposure ..... 8¼″
Average pieces per square 171
Average weight per square ..... 900 lbs.



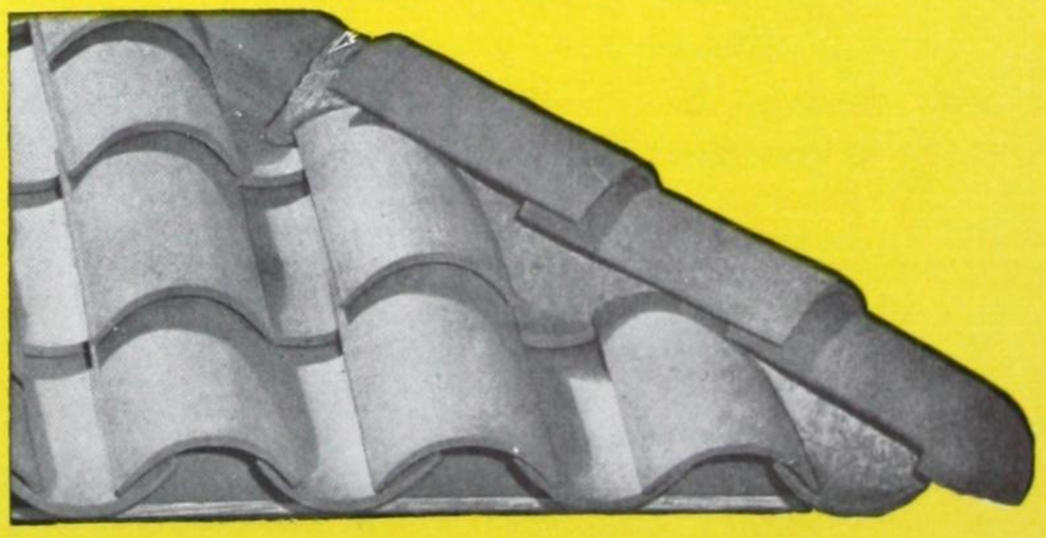
CUBANA TAPERED MISSION

Length, pan ..... 18 ″
Length, cover ..... 18 ″
Width center to center of covers ..... 11¼″
Average length exposure, pans ..... 15 ″
Average length exposure, covers ..... 15 ″
Average pieces per square, pans 85
Average pieces per square, covers 85
Average weight per square ..... 1265 lbs.
Note: 18″ Straight Barrel pans furnished with this pattern.



STRAIGHT BARREL MISSION
MADE IN TWO LENGTHS

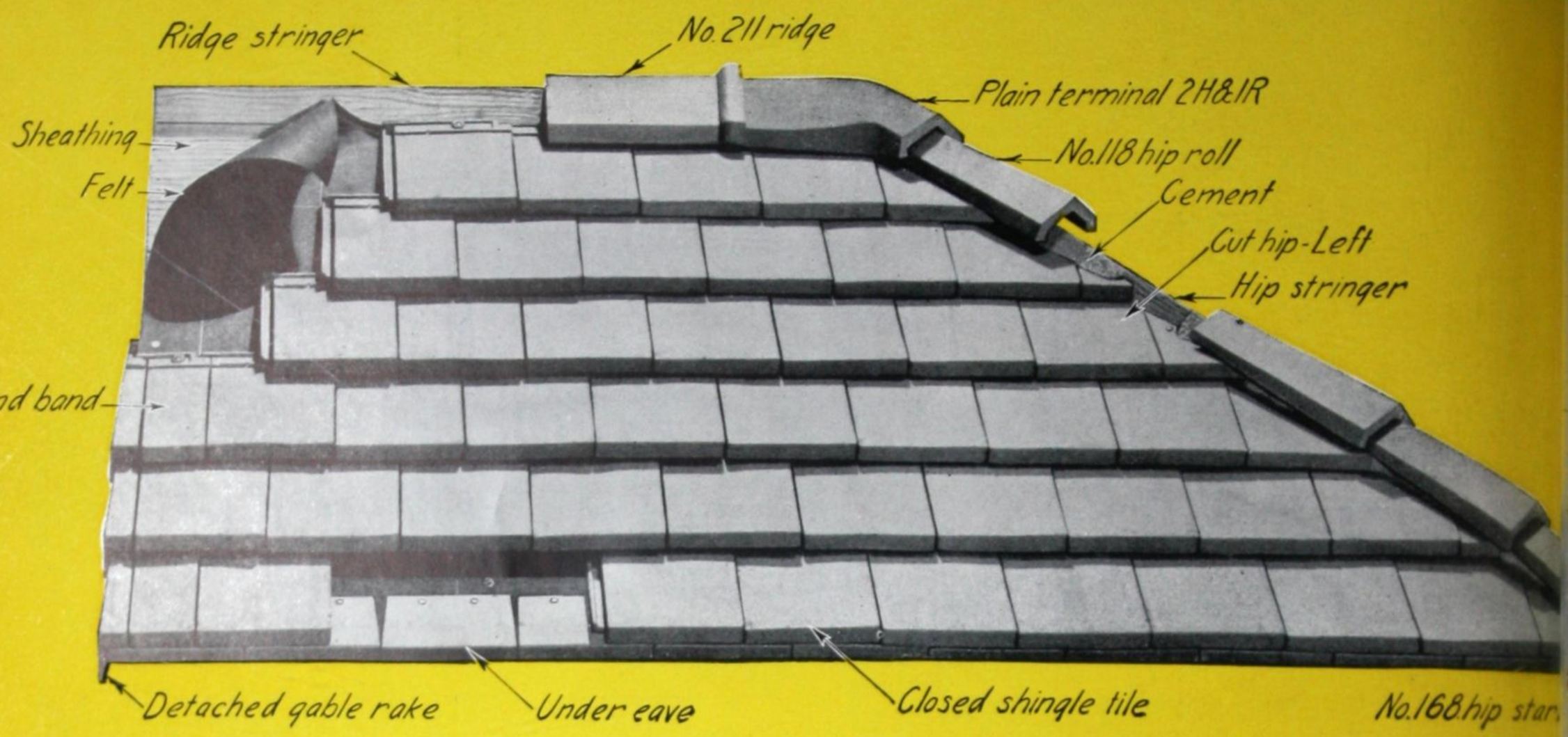
Length	14¼″	18 ″
Width center to center of covers	11½″	11½″
Average length exposure	11¼″	15 ″
Average pieces per square	224	166
Average weight per square	1250 lbs.	1290 lbs.



18″ TAPERED MISSION COVERS
AND 18″ STRAIGHT BARREL PANS

Length, pan ..... 18″
Length, cover ..... 18″
Width center to center of covers ..... 10″
Average length exposure, pans ..... 15″
Average length exposure, covers ..... 15″
Average pieces per square, pans 96
Average pieces per square, covers 96
Average weight per square ..... 1280 lbs.

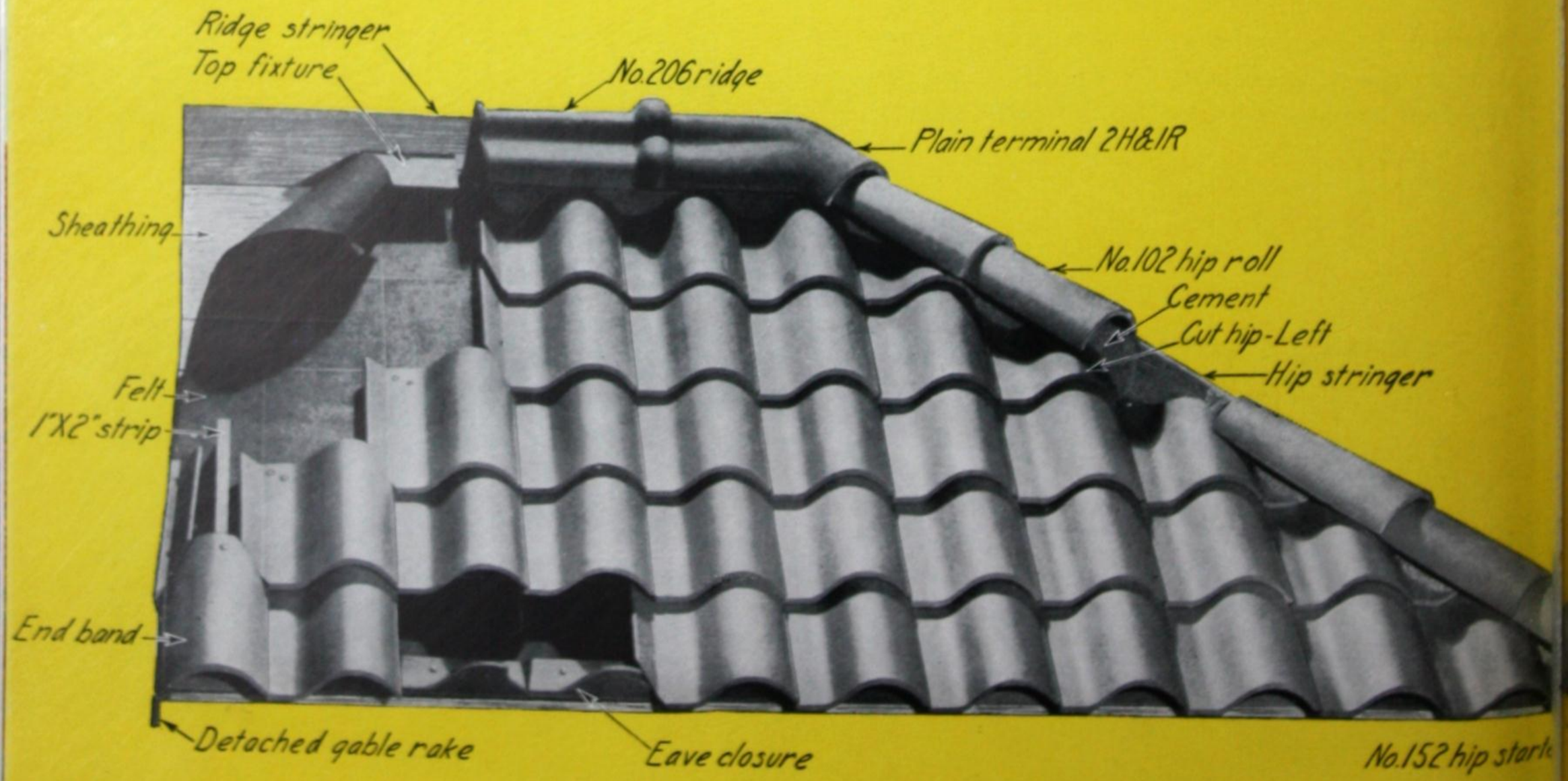




The above cut is intended to show in detail preparation of roofs to receive tile and proper application of our interlocking shingle tile. This pattern of tile is made in three sizes to enable its use on the small home as well as on large institutional work.

	Length	Width	Average Exposure	Pcs. Per Sq.	Weight
Closed Shingle	11 ″	8¾″	8 ″x8 ″	225	850 lbs.
English Shingle	13¼″	8¾″	10⅛″x7¾″	182	900 lbs.
XX English Shingle	16 ″	8¾″	13 ″x8⅜″	132	800 lbs.

Below are details showing our Spanish tiles and proper method of application. This pattern of tile is appropriate for the Spanish or Mission type of architecture. It is furnished in the same range of colors and textures as our pan and cover Mission. For the small home we recommend this pattern in preference to the Mission—first because it does not have the appearance of being too heavy and, secondly, the cost is considerably less.



SPECIFICATIONS FOR
LUDOWICI TILE

TILE

Cover roofs as indicated by plans with Ludowici-Celadon Company's (specify pattern and color) tile and necessary fittings. Hip and valley tile shall be cut to the correct pitch before burning.

NAILS

All nails used for fastening tile and flashings shall be of copper.

FELT

Cover roofs to receive tile with one thickness of asphalt felt weighing thirty pounds per square. Lay felt parallel to eaves, lap 2½″ horizontally and 6″ vertically. Fasten felt with large-headed galvanized nails. Extend felt 6″ up vertical walls and 4″ over gutter and valley metal.

WOOD STRIPS

Provide ¾″x1″ cant strip at eaves and 1″ wood stringers of required height for hip and ridge rolls.

FLASHING

At sides of vertical walls, insert base flashing between each course of tile. Lap 3″ and extend 4″ under tile and 6″ up walls, cap flashed and pointed. Where tile and metal roofs intersect, extend metal up 12″ under the tile. Gutter metal to be carried up to a point higher than the outer edge of gutter. Line valleys with 16 oz. copper at least 20″ wide. Turn edges over ¼″. Lap joints 4″. Fasten with cleats, do not solder.

APPLICATION

Lay shingle tile with 2″ head lap on the third course. All other patterns to be laid with a 3″ head lap. Fasten tile with copper nails of sufficient length to give ¾″ bond. Fasten tile that overlap sheet metal with copper wire and elastic cement. Cement hip roll, ridge roll and end bands in laps with elastic cement. Fasten hip and ridge rolls with 2½″ copper nails. Where cut hip tile joins hip stringer make a water tight joint with elastic cement.

LUDOWICI-
CELADON
COMPANY

FACTORIES

New Lexington, Ohio
Coffeyville, Kansas
Peru, Kansas

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API INTERNATIONAL

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LUDOWICI TILE

ROOFS OF LIFETIME BEAUTY

Masonite

NSULATION . . PRESDWOOD . . QUARTRBOARD . . LATH
MPERED PRESDWOOD . . TEMPRTILE . . CUSHIONED FLOORING

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API INTERNATIONAL

CCA

Dedicated to the American Home, Office and Store with a sincere desire to make them brighter and happier places in which to live and work.

YOUR home, whether it is the one you now occupy or the one you have long dreamed of owning, will be finer, more modern, more beautiful, if you wisely decide to make use of Masonite products in it. You will reach that decision if you let the thought of the country's foremost architects, its most interesting interior decorators guide you and if you are willing to benefit by the experience of thousands of satisfied users.

In this book will be shown briefly where and why and how in your homes, offices and stores, you can make use of one or more of these products to your great advantage.

You will see too, as you go through these pages that they are rich in suggestions of new arrangements, new finishes, decorations, color treatments and even furnishings that will be both interesting and helpful.

We here endeavor to make another substantial contribution to the Better Housing Program and to the thousands who plan to build new or to modernize.

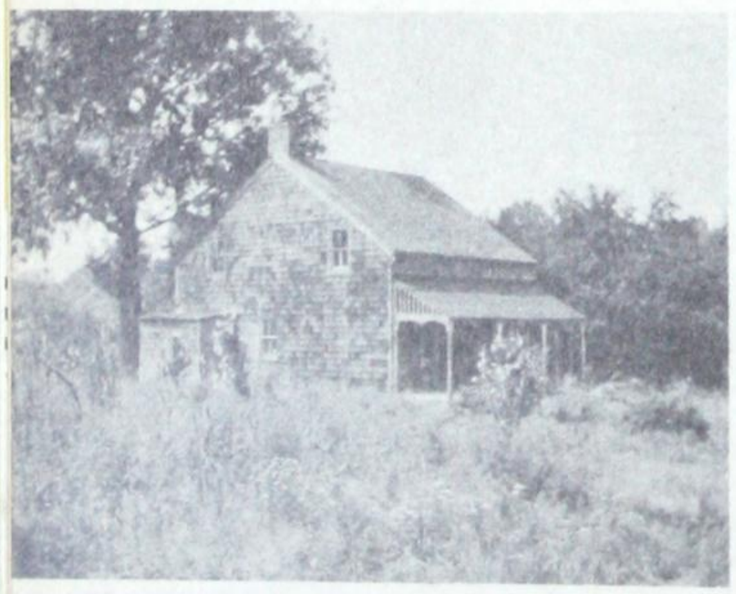
MASONITE CORPORATION

111 W. WASHINGTON ST. CHICAGO, ILL.





AFTER. . But an able architect saw it in quite a different light



BEFORE. . This old house did not seem to hold any possibilities.

SIMPLICITY BRINGS RETURN OF BEAUTY

AMERICA has produced nothing of greater charm and beauty than the colonial homes and Cape Cod cottages built by our forefathers. Their purity of line, their perfect expression of balance and proportion gives them a distinction that is exclusively theirs. In any period, any surrounding they are good, just as old silver is ever good.

But there came a time when in our clothing and home building we launched forth on a wild riotous debauch. Women "laced" to achieve a wasp-like waist and men strutted in "peg-top" trousers and choked in collars three inches high. It is designated now as "the McKinley Era" and it witnessed the building of those monstrosities of architecture, those houses with turrets and towers, trimmed shingles, useless balconies, extravagantly turned wood ornaments. In fact, every jimcrack that could be designed was made a part of the house.

Tiring after a few years, of the meaningless frills and furbelows, we came to a realization that the simplicity of the colonial, the sincerity of the Cape Cod and the rugged honesty of the pioneer's log cabin were types so fine that, in modified form at least, they should be preserved.

With this appreciation of the simplicity and beauty of these older forms came a healthy and happy acceptance of new materials that perfectly combine beauty and utility.

Science, art and industry have joined forces in this renaissance of the home. We have set up definite standards of livability, convenience, durability and economy, and have given our architects and engineers free rein in accomplishing these ends.

How well they have fulfilled their task is illustrated, in part, by the photographs on these pages which show a group of homes as they once were, and as they appear today transformed by skill and good taste, and invention.

Examine these pictures for a moment and you will readily see how architecture works its magic on the exterior of homes. What appeared hopelessly ugly is made beautiful simply by removing useless ornamentation, by re-designing an entrance, adding a row of dormers, changing the eaves or the slope of a roof, repainting or resurfacing the walls.

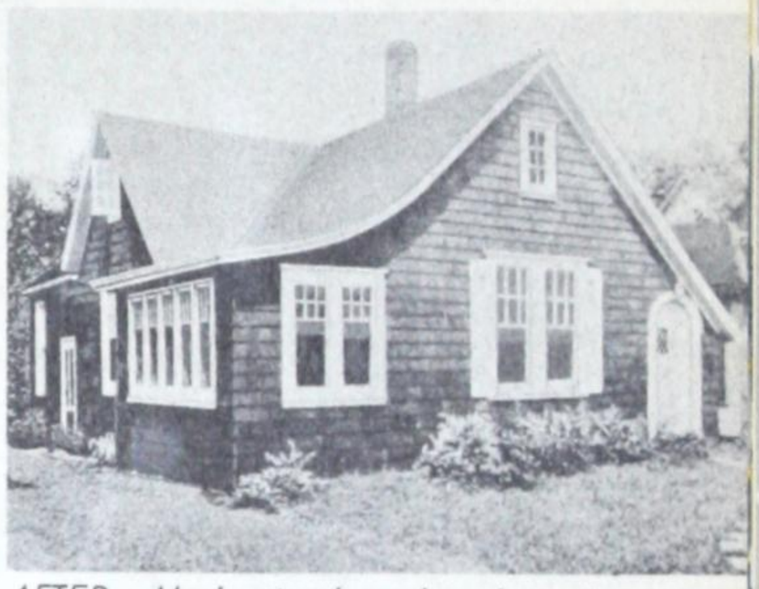
As much or as little as is desired can readily be accomplished. A small house is enlarged by the addition of a wing; a large one is made even roomier by the utilization of waste space. Partitions are moved, room plans are altered, windows changed or new ones made, and the result is a harmonious, intelligently planned home that conforms to modern ideals of exterior and interior design.

In cases such as these, where extensive alterations or additions are to be made, it is most desirable to engage a good architect. He will plan the work properly and will give you correct designing. Because of his broad experience and knowledge, he will effect many important savings and he will keep you from making many costly blunders. The fee you would have to pay him would probably be less than the money he would save for you.

We, who live in these homes, whether new or modernized, are sheltered more securely by strong, modern materials that resist the buffeting of storms, the heat of summer and the cold of winter. We enjoy the convenience of automatic equipment and of numberless labor-saving devices. Consciously or unconsciously, we are made happier by the quiet, restful harmony of beautiful rooms and furnishings. And we enjoy all of these benefits at extremely moderate cost, and with complete assurance that what we have built will endure throughout our lifetimes; will serve even our children's children.



BEFORE . . This little cottage was built back in the gay nineties.



AFTER . . Modernized and enlarged, it is now quite charming.



BEFORE . . Just a big barnlike structure wholly lacking in charm.



AFTER . . Until roof lines were changed and porches added.

WHICH ROOM GIVES GREATER PROMISE OF GRACIOUS, HAPPY LIVING? . . .



Not very many years ago this drab living room was considered a suitable gathering place for any man's family. And Mrs. Homemaker was actually quite proud of what she considered a tasteful composition in brown and tan relieved only by a touch of color in the pictures. This was the typical parlor found in homes in the better residential section.

According to her lights, it wasn't a bad room. But *you* don't like it—and neither do we. The colors are good but are handled ineffectively and without imagination. It lacks contrasts. That dark moulding looks bad to our eyes . . . the mantel is ugly . . . and the table lamp as dated as grandmother's hat.

What to do about it? Unfortunately, Mr. and Mrs. Homemaker can't afford a new house, or even a completely new set of furniture. But they do have some money set aside—or can borrow some—and they're intent on modernizing this room as thoroughly as possible within their means. So let's go to work.



How do you like it? Isn't this a gayer, brighter, altogether lovelier room? The old furniture had good lines, so we retained it—simply re-covered the old sofa and easy chair and added a smart, new coffee table. The simple, white painted mantel adds a note of distinction while the beveled-edge mirror reflects a room beautifully correct in every detail.

But these ARE details. After all, it is the cool, blue walls that really dominate this room. And those walls are Masonite DeLuxe Quartrboard applied right over the old plaster. There are no vertical joints. The big pieces of Masonite DeLuxe Quartrboard have been placed horizontally, and are cut in widths that permit the complete elimination of waste and, at the same time, give the greatest decorative value to the painted battens covering the joints.

This unusual wall treatment illustrates the remarkable adaptability of just one of the Masonite products which enables it to solve almost any designing or building problem with the utmost efficiency and economy. It makes the room seem far more spacious and more livable.





HERE IS FOOD FOR THE EYE, TOO

We don't mean to belittle the importance of the grand old art of cooking, but wouldn't anyone enjoy life—and dinner—more in this gay green room with the rich, patterned floor and the yellow drapes catching the warm light of the sun? Banished forever are the heavy, oak woodwork and the air of stodgy dullness that brought drowsiness with the roast and indigestion with the pudding.

Another Masonite accomplished this miracle. Once the woodwork was removed, it was a simple matter to cover the walls with smooth, durable boards of Masonite Structural Insulation and finish them with paint or enamel. The vertical joints are beveled and cleverly made a part of the decorative scheme, while the broken horizontal courses are simply shallow grooves tooled into the surface of the boards.

The ceiling of this room is another Masonite product—Quartrboard battened, with narrow strips of Masonite Presdwood, and finished in the same manner as the walls. Even the handsome floor is of quiet, durable Masonite Cushioned Flooring.

BRIGHTNESS IS THE KEYNOTE . . .

of this madeover bedroom which makes the most of every square inch and yet has an air of spacious luxury. Notice how the radiator has been covered and recessed between built-in cabinets to provide a cozy window seat.

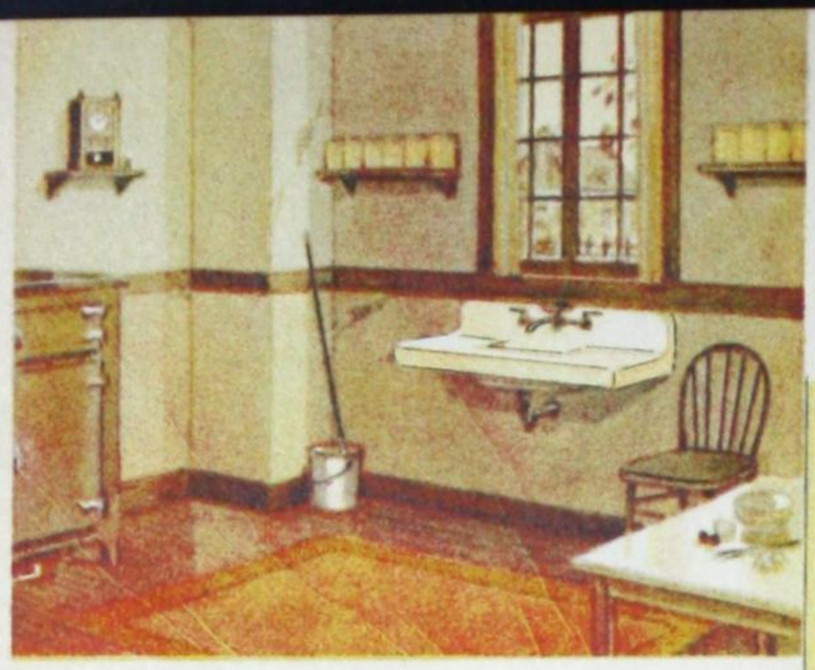
And right there Masonite comes into the picture. The large panels in the cabinet, clothes closet, window seat and cutout radiator grille are all made of Tempered Presdwood painted to match the walls.

The walls themselves are of Masonite Insulation applied over the plaster and papered in a gay design. The ceiling too, (though you can't see it) is of Masonite Insulation. As a result, this bedroom is as comfortable as it is beautiful—warm in winter and cool in summer. Expensive? Not at all! An economy, really because Masonite on walls and ceilings sends fuel bills way down. It's a point worth remembering.

Another point worth remembering is that wall paper can be applied directly to Masonite Structural Insulation.









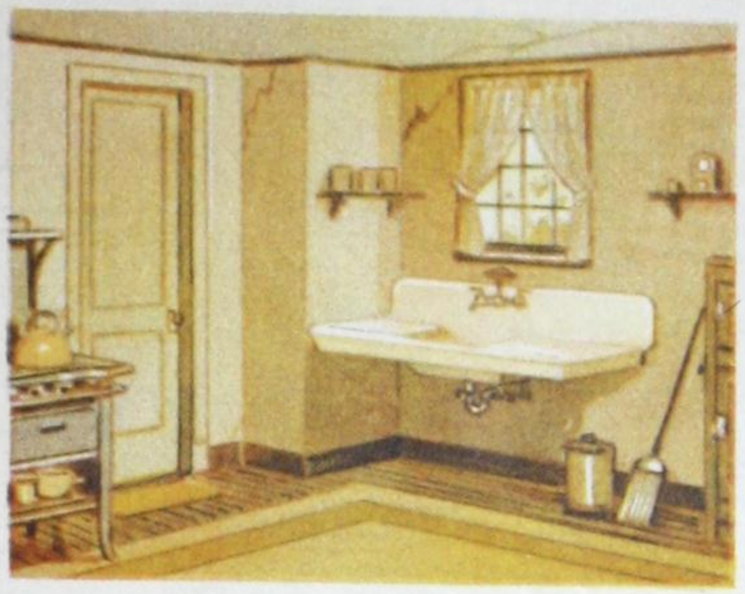
A KITCHEN PRESDWOOD BUILT

The modern kitchen is not only beautiful, but is far easier to work in than the old fashioned kind. Its capacious cabinets are carefully designed and conveniently located. Its bright surfaces are impervious to grease and grime—easy to clean and keep clean. Every detail of arrangement and lighting is worked out with utmost care.

In this kitchen, a new sink has been flush-mounted in a long cupboard with a natural finish Masonite Tempered Presdwood top that serves both as a work table and as a drainboard. The panels and shelves of the china cabinets, the panels of the cupboard and the ceiling are also of Tempered Presdwood, painted or lacquered, the finish being applied by any good painter right on the job.

Masonite Tempered Presdwood will not warp, swell, shrink, or check. It is hard, and non-absorbent, yet resilient enough to avoid chipping porcelain utensils or cracking glass or china dishes.

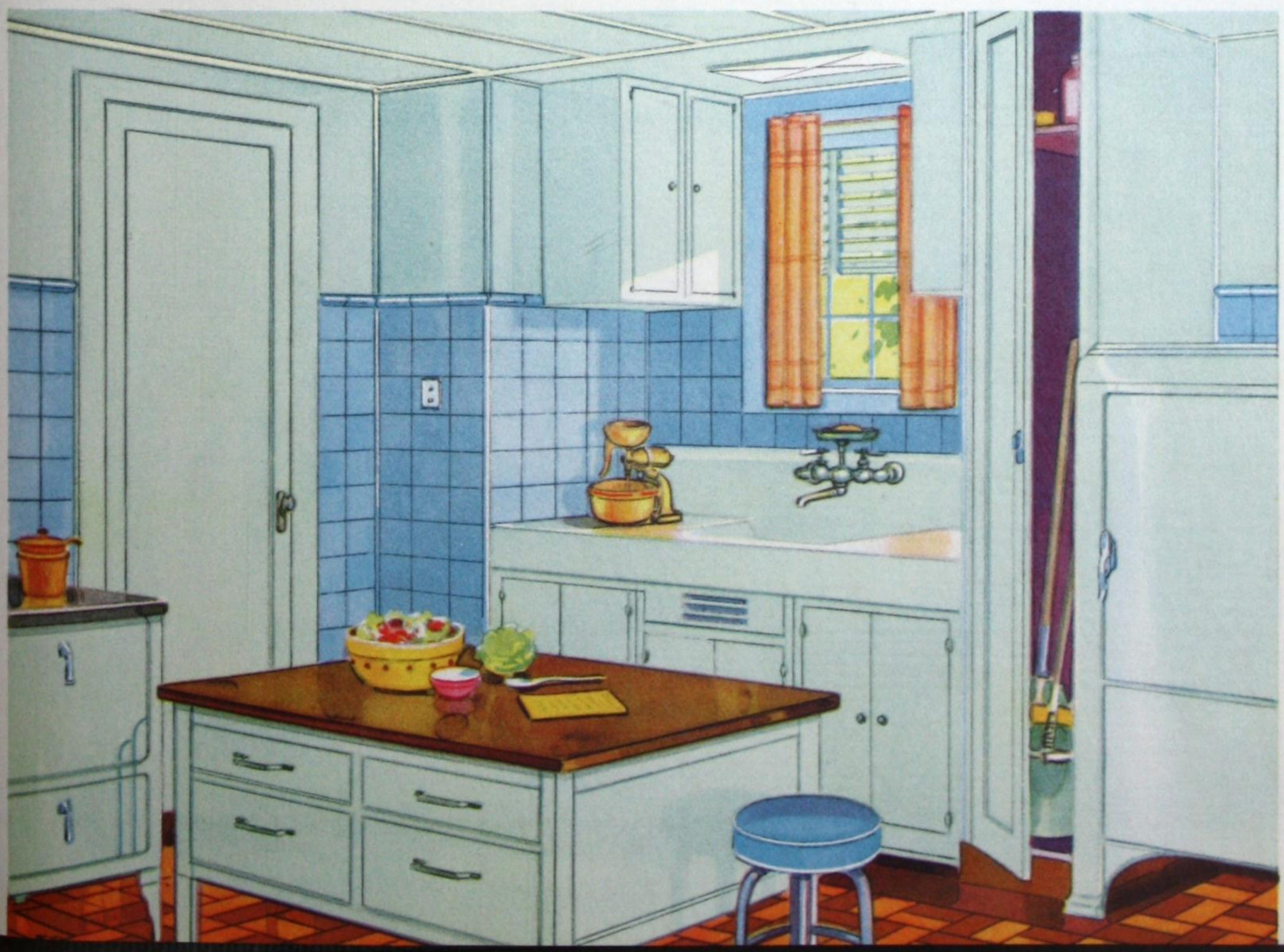
BEAUTIFUL SANITARY TILE...AT LOW COST



How tremendously this kitchen has been improved by the built-in sink, by finishing the walls with Masonite Temprtile finished to suit your exact taste by your painter or yourself, adding a convenient closet.

The tile is Masonite Temprtile—beautiful, durable, yet economical. It comes scored and may be finished on the job, or it may be purchased from board tile manufacturers or their dealers, ready-finished in a wide range of colors that will not fade or check.

The built-in broom closet, the cupboard under the sink and the suspended cabinets flanking the window are all made of Tempered Presdwood—as are the top of the kitchen table and the panel of the swinging door. The upper walls and ceiling are covered with Tempered Presdwood painted or enameled to match the Temprtile.





EVEN A ROMAN WOULD LIKE THIS BATHROOM

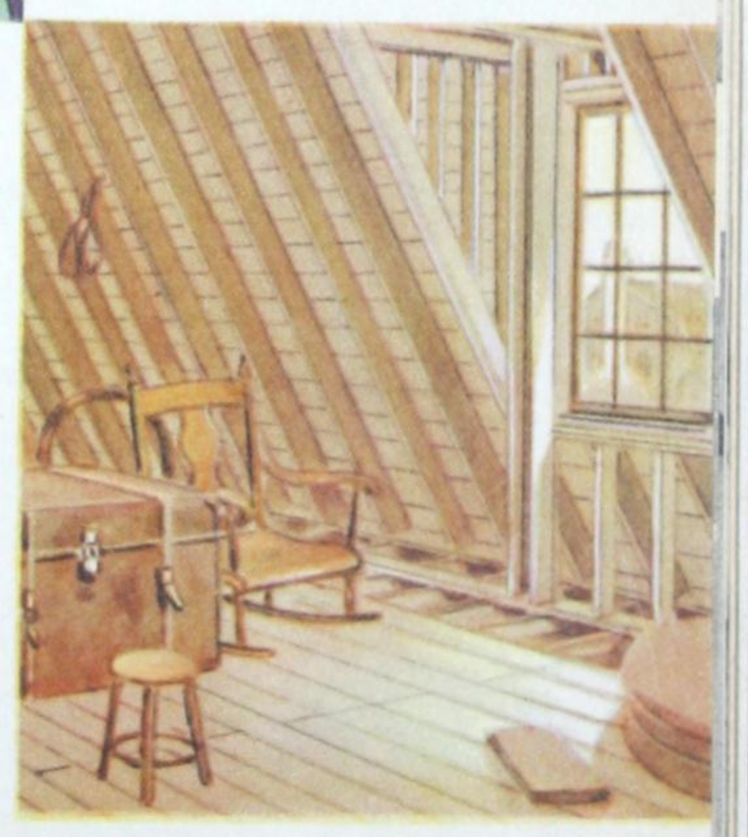
. . . as it appears modernized with Genuine Masonite Temprtile. It's a splendid example of how much can be done with only a little money. Most of the old fixtures have been retained—but the tub has been built-in and recessed with a commodious linen closet replacing the unsightly clothes hamper.

The handsome tiling is, of course, Masonite Temprtile, which you or your painter can finish in any desired color right on the job. In this modernizing job, it was applied right over the plaster. It's a simple job done with glue and headless nails—and it "stays put." There's no cracking or crazing of this tile. Its bright, impervious surface is easy to keep clean and isn't harmed a particle by steam or repeated washings. Unlike other tile, the colors can be changed by repainting.

The upper walls and ceiling are of Masonite Tempered Presdwood painted in a contrasting color and with joints concealed by thin battens. The door, shelves and lining of the linen closet and the entrance door are also of Presdwood . . . they will never warp, swell or sag.







RECOGNIZE THE OLD ATTIC?

We can't blame you if you don't, for it is a far cry from this clean, airy bedroom to the dusty, cob-webby attic storage room of Grandmother's day. A room like this is a perfect solution to the problem faced by the family that has grown too large for its home. There isn't a member of the family who would not be proud and happy to claim this room as their own. It would surely delight one of the younger generation.

Masonite Structural Insulation is the material used here—except for the clothes closet, book shelves and chest of drawers which are made of Masonite Presdwood. The Masonite Structural Insulation that gives you this attractive added bedroom also puts an end to excessive heat loss through the roof—brings fuel bills 'way down. What's more, this attic will require little if any heat in winter, and will keep the whole house a lot cooler in summer.

Just a word about the furniture. The desk beside the bed is made of Masonite Tempered Presdwood finished natural. So is the top of the dressing table. That's real versatility.

WHY WASTE THE BASEMENT?

. . . after all, it's home too, and a very useful and attractive part of the home, when it is properly fixed up. You can see just what has been done to this one in order to change it from a cold, clammy basement into a warm, modern play room. It's the simplest kind of work, inexpensive and always satisfactory. Here is a job many home owners do themselves in their leisure hours.

This game room illustrates what can be accomplished through intelligent use of the various Masonite products. Structural Insulation has been applied over the cement or masonry walls. It makes a pleasing wall surface that insures warmth and freedom from dampness or "sweating." The partition is also of Masonite Insulation while the ceiling—which conceals exposed piping and floor joists—is of Quartrboard. The mouldings and battens are narrow strips of Presdwood which gives an attractive two-toned effect against the lighter walls.

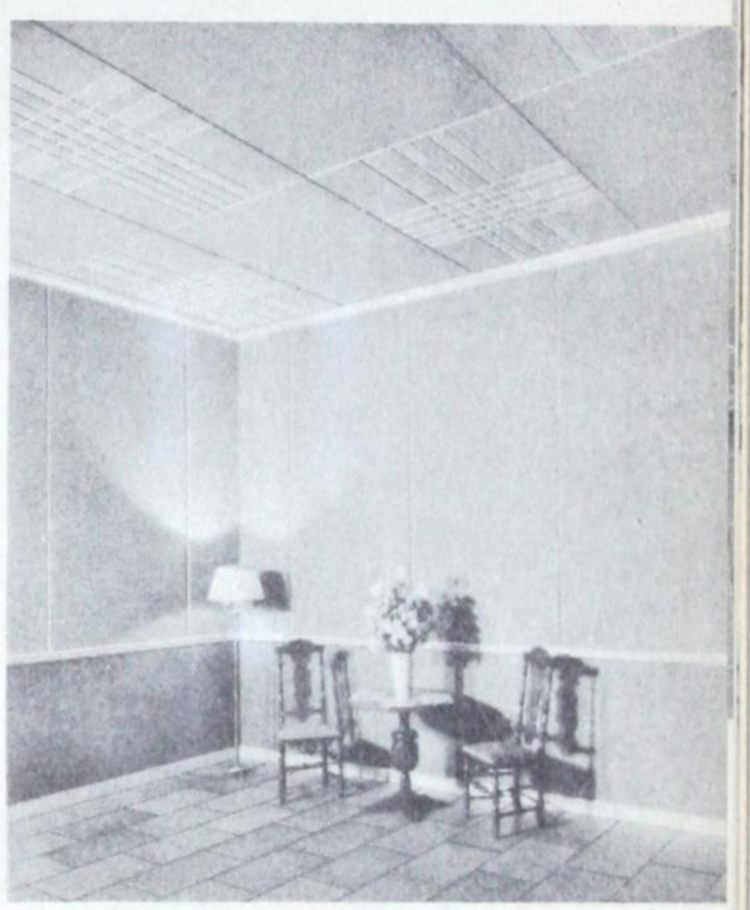
Of course, you can decorate these walls in any manner you desire—using bright posters, magazine covers or gay paint stencils, for instance.

Tempered Presdwood boards of a suitable thickness were also used in constructing this ping-pong table, the combination bookcase and table, the toy chest and even the unusual, modern chair.









The two-toned effect in the ceiling is achieved by sandpapering parts of the Masonite Insulation.

NO NEED TO DECORATE WALLS OF SUCH BEAUTY

Even the picture above, as beautiful as it is, cannot do justice to walls of Masonite Structural Insulation. Their restfulness and charm may be appreciated only when the actual rooms are seen.

Such installations as these are possible only because of such new materials as Masonite. They take full advantage of the rich warm color of our products, its beautiful figure, its satin-smooth surface, the large size of the boards.

There was a time when it was deemed necessary to put materials on materials—plaster over lath, wall paper or canvas over plaster—but that day has passed. Today we use good materials, and let them stand proudly forth by virtue of their own beauty and utility.

In the installation shown above it is interesting to note the manner in which the grooved lines start at the chair rail, run diagonally across one board and horizontally across the next, repeating until they reach the ceiling. They are then carried across the ceiling and brought back down the side wall to the wainscot, which is of Masonite Tempered Presdwood.

Details as to how such gratifying results may be achieved by the use of Genuine Masonite Products may be found on pages 17 and 18.



Only the edges of the boards in the walls are beveled. Ceiling boards grooved diagonally.





Interest is added by the cut-out designs cemented on the walls.



A six foot high wainscot of random width standard and Tempered Presdwood.

BEVELING OF MASONITE ACCENTUATES ITS BEAUTY

We, who have passed our thirties, have survived the age of intricate design and extravagant decoration. Straight-away lines and smooth areas of honest materials unadorned are more definite and reassuring.

There is so much clash and clatter around us—so much rushing, restlessness and excitement generally, that walls and ceilings that will absorb or deaden sounds are surely to be desired, particularly when such walls and ceilings are so pleasing in their appearance.

To secure the advantages such as wall treatment gives, we would willingly pay liberally, but fortunately such interior may be installed at greater economy than almost any other. The saving is due both to the very reasonable price of the products—Masonite Structural Insulation, Quartrboard and Presdwood—and the low cost of installation.

Please refer to the specification data given on pages 17 and 18.





Factory made beveled tiles give regular or random ashlar effects.

WHERE SHOULD WE USE SUCH TREATMENTS AS THESE?

Where should Masonite Structural Insulation left in its natural finish be used for walls and ceilings is a question frequently asked. The answer is entirely a matter of personal choice—some people regard it as being particularly suitable for use in one area, while others favor it for another.

Generally, in homes, it is employed in board or ashlar effect in dining room, hallway, library, study and in wider widths for attic rooms or basement game rooms.

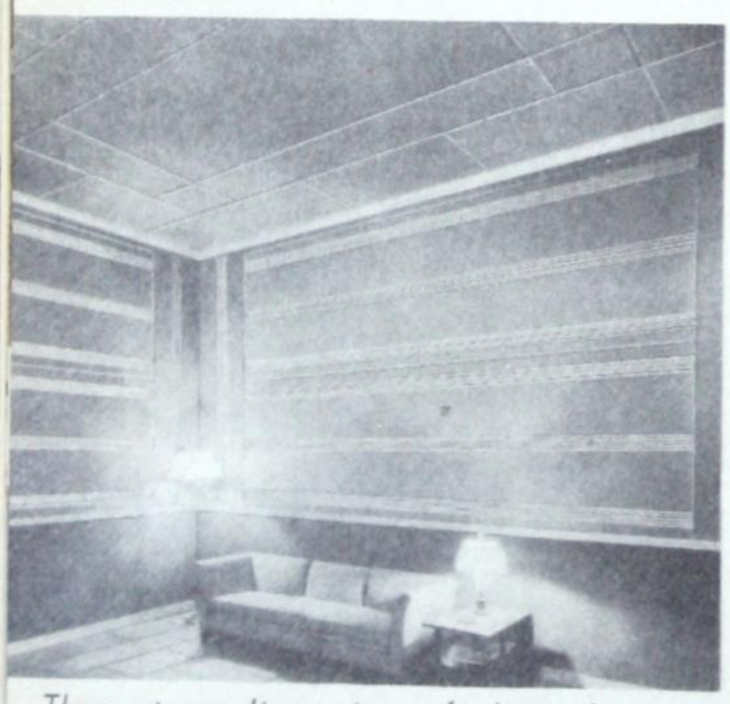
In offices it imparts a friendly warmth to reception rooms and entrance halls, a substantial look to private offices, a restful shade and a welcoming sound deadening effect to general office space. Left natural, it tones down the clatter of typewriters and other mechanical noises.

See Pages 17 and 18 for specifications regarding application and decoration.



Beveled tile walls with ceiling of random width beveled plank and heavy cross beams.





These strong lines give a feeling of security and confidence.



Heavy beams and random width planks interestingly combined.

SMALL ROOMS SEEM LARGER WHEN WALLS PROPERLY TREATED

The wall treatment of the room shown above has been much admired and has aroused great interest because of the manner in which it has seemingly increased the size of the room.

This feeling of great space is due to the horizontal application of the Masonite Structural Insulation and to the simple yet interesting manner in which it has been grooved. In this room and in the rooms pictured on the three preceding pages the grooving was done by one of the several tools designed for that work.

The use of horizontally grooved boards not only tends to make small rooms seem larger, but also creates the impression that the ceiling line has been lowered, which in many instances is highly desirable.

These pleasing wall treatments are economical, because they require no added decoration whatever. The beautiful Masonite boards are left in their natural finish—a rich brown tone and a satin-smooth surface.

It should be noted that the beveling and grooving of Masonite Structural Insulation is a simple, easy and rapid operation. Once the design is determined the grooving tool is pushed forward along a straight edge making one complete bevel or groove at each operation.

Additional information regarding the application of Masonite Products is given on Pages 17 and 18.

SPECIAL DATA
REGARDING INSTALLATIONS

MASONITE boards may be divided into three general classes:

Insulation boards, including Masonite Structural Insulation, Masonite Insulating Lath, Masonite Beveled Tile and Masonite Beveled Plank. These are the beautiful brown boards now so widely used. There are however, those who have a preference for boards of lighter color. For them we offer the new Masonite Litecol Insulation, Litecol Beveled Tile and Litecol Beveled Plank. The Litecol board is very light in color, being only a few shades away from pure white.

Semi-hard boards, including Masonite Quartrboard and Masonite DeLuxe Quartrboard.

Hard boards, including Presdwood, Tempered Presdwood and Temprtile.

All of these may be sawn, planed, sanded, nailed, cemented, painted, varnished or lacquered, just as though they were boards of natural wood. For simple work, only simple standard tools are required.

The Insulation boards may be worked perfectly under special tools, such as the Bevil Devil and the Stanley Karpenter Kutter. Neither of these tools will successfully groove the Masonite hard boards.

APPLICATION OF MASONITE PRODUCTS

Instructions given in our General Masonite Specification book should be followed. All of these products should be properly backed up—flimsy construction never pays. When applied to studding, joists or rafters, the boards are to be nailed. When applied to a solid area, they may be either nailed or cemented or both. In applying insulation boards, four or six penny casing head nails should be used, driven at a 30-degree angle. They should be driven to within an eighth of an inch of the surface of the board, then, using a nail set they should be driven slightly below the surface of the board after which the board over the nail head should be tapped lightly with the hammer. The first nailing should always be done at or near the center of the board on the intermediate supports, the outer edges of the board being nailed last.

Where the boards are left exposed, whether painted or unpainted, the question arises as to what joint treatment is to be used. A simple, yet pleasing treatment is the beveled edge butt joint. If desired the joints may be concealed by battens of natural wood, Masonite, chromium or aluminum. Wood trim may be secured from your local lumber dealer. Masonite trim may be cut on the job or it, too, may be supplied by your local dealer or local woodworking shop. Chromium mouldings from Chicago Metallic Sash Company, Chicago, Marsh Wall Tile Company, Dover, Ohio and others. Aluminum trim may be secured from the Aluminum Company of America.

PAINTS, ENAMELS AND SPECIAL FINISHES

These must be worked out on the basis of the particular Masonite product used and the use it is to serve. Follow the recommendations of the manufacturer whose finishes you use. Most paint manufacturers offer special products for our different boards.

SCORING HARD BOARDS

The only tool available for this purpose is the Masonite Fluting Tool, which is sold at a price of 35c. It makes a narrow groove (approximately ⅛″ wide) and of about equal depth. However, if an attempt is made to take too deep a bite into the hard boards, it will fracture the cutting edge of the tool and ruin it.

APPLICATION AND DECORATION OF MASONITE TEMPRTILE

This product—ideal for kitchen and bathroom walls and for stores, shops and markets where bright, gleaming walls are particularly desirable—is available in ⅛″ and 3/16″ thickness, and in 4 foot by 12 foot boards marked into four inch squares by grooves impressed into them.

These boards are fastened permanently to the base to which they are applied either by waterproof cements or nailing, or both. They may be finished on the job by master painters, either before being installed or after installation. Special striping tools are available on the market with which it becomes an easy matter to stripe the scored lines with a contrasting color. Beugler Striper—one of the best of these striping tools—is made by the Beugler Manufacturing Company, 4318 W. Second Street, Los Angeles, California and sold by them and by us.

Metal mouldings are particularly suitable for use with Masonite Temprtile. Special shapes to take care of flat wall joints, inside corners, outside corners and nosings are to be had either in highly polished chromium or in satin-finished aluminum.

CUSTOM FINISHED MASONITE HARDBOARDS

The members of the National Sheet Tile Association apply their own finishes to Masonite hardboards and market them under their individual trade names. They are the finest products of the kind that it is possible to obtain.

MASONITE BEVELED TILE AND BEVELED PLANK

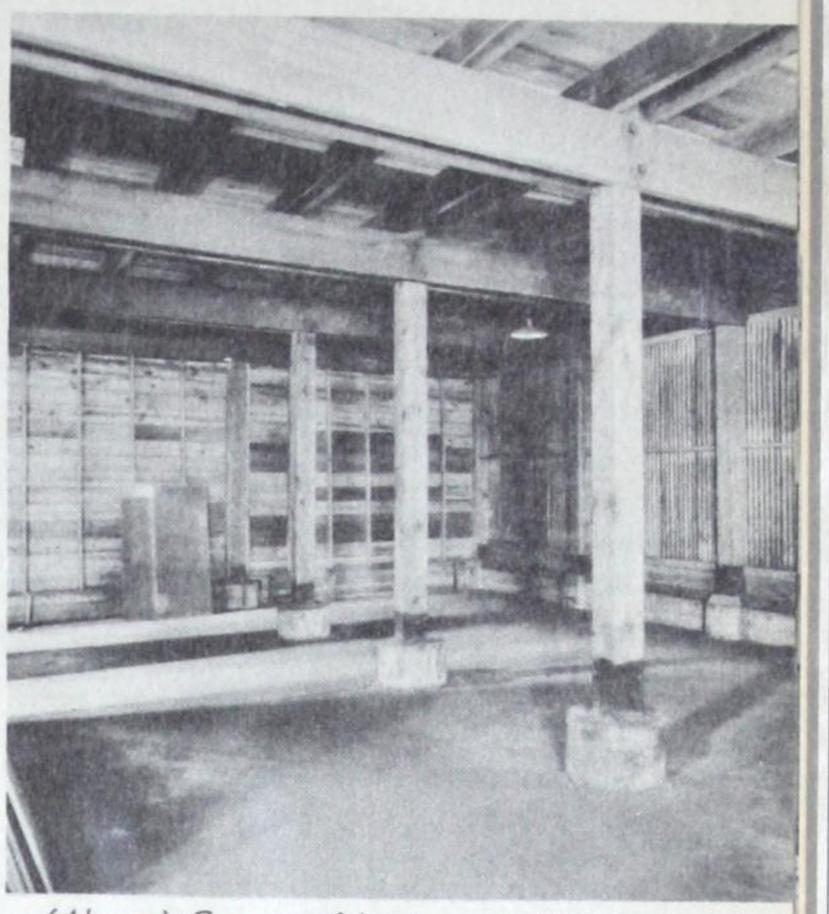
In studying the effects illustrated on pages 13, 14, 15 and 16, it should be borne in mind that most of the designs made use of boards of large size, beveled and grooved by carpenters on the job. As a part of the regular Masonite line, however, many dealers carry Masonite Beveled Tile in several sizes and Masonite Beveled Plank in different widths and lengths. For some jobs, this is particularly advantageous.

THESE IMPROVEMENTS NOT COSTLY

Though unusually attractive, the modernizing ideas offered in this book do not call for a great outlay of money, unless you should undertake the modernization of the entire house at once—and even then the cost would be surprisingly low. The cost would be small indeed compared to the beauty, comfort and convenience you would enjoy.

We would also suggest that in buying Insulation, semi-hard boards or hard boards, you insist that Genuine Masonite Products be furnished and refuse to permit substitution. To be absolutely certain, look for the name "Masonite" that we burn into the reverse side of each of these boards.





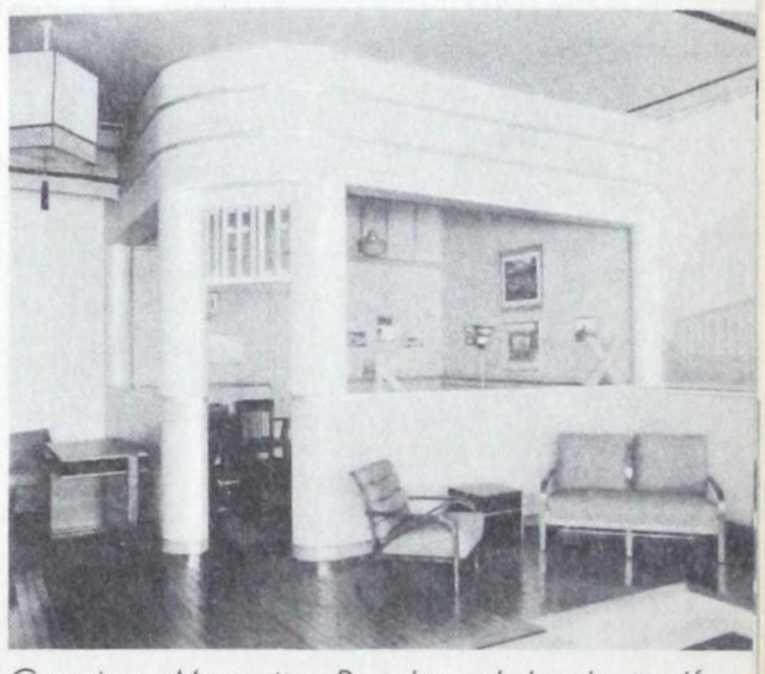
(Above) Corner of lumber shed of St. Louis Lumber Company which by use of Masonite Products was converted into beautiful display room shown at the left.

MASONITE BRINGS MODERN BEAUTY TO OFFICES AND RECEPTION ROOMS

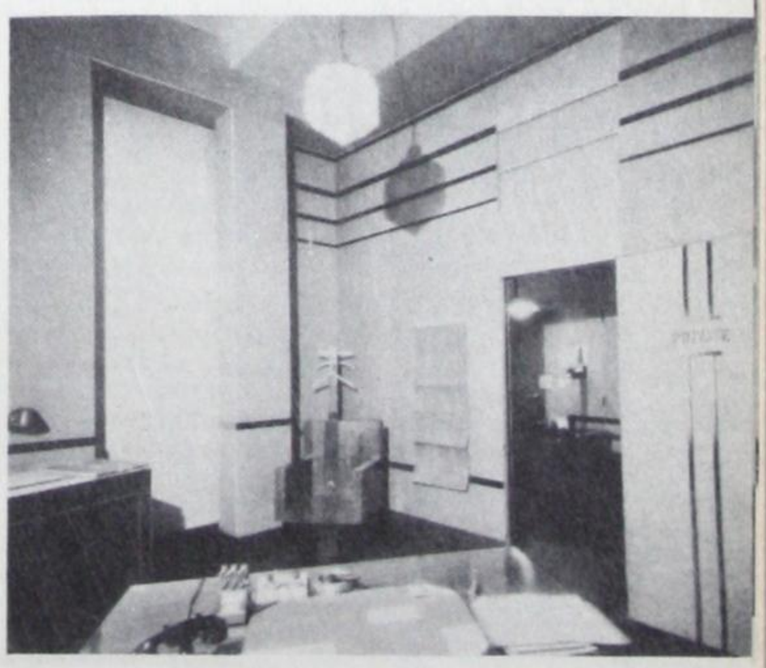
Most modern offices are designed with an eye to beauty as well as utility. Unfortunately, a great many offices aren't modern—but they can be modernized with Masonite in such a way that they will be not only more attractive to clients and customers, but more efficient and satisfactory to work in.

Masonite products are ideally adapted to this important class of work. There is a board for every need . . . each one so beautiful in its natural finish that it requires no added decoration, durable, rigid, easily workable and economical. In addition, Masonite Structural Insulation possesses remarkable acoustical properties that greatly reduce ordinary office noises with a resultant increase in the efficiency of the staff.

An almost endless variety of decorative effects are possible with Masonite. The boards, though of rich brown tone, blend into practically any color treatment. To further enhance their beauty they may be scored or grooved with conventional woodworking tools . . . cut out or built up in several thicknesses . . . self-battened or banded with wood, chromium or copper . . . left natural or given any of the finishes commonly applied to wood.



Genuine Masonite Presdwood lends itself perfectly to this modern treatment of business offices.



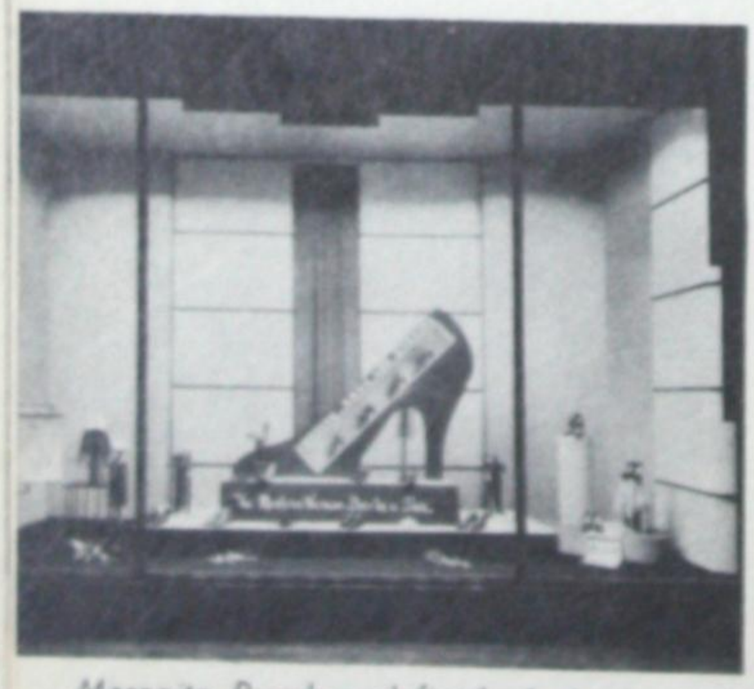
This suite of offices was made beautiful and modern by the Masonite treatment of its walls.



The entire exterior of this store of Mrs. Stover's is of 3/16" thick Genuine Masonite Tempered Presdwood.



An ice cream and soft drink pavilion the exterior of which is Genuine Presdwood.



Masonite Presdwood finished display window of the Hudson Bay Company, Winnipeg.

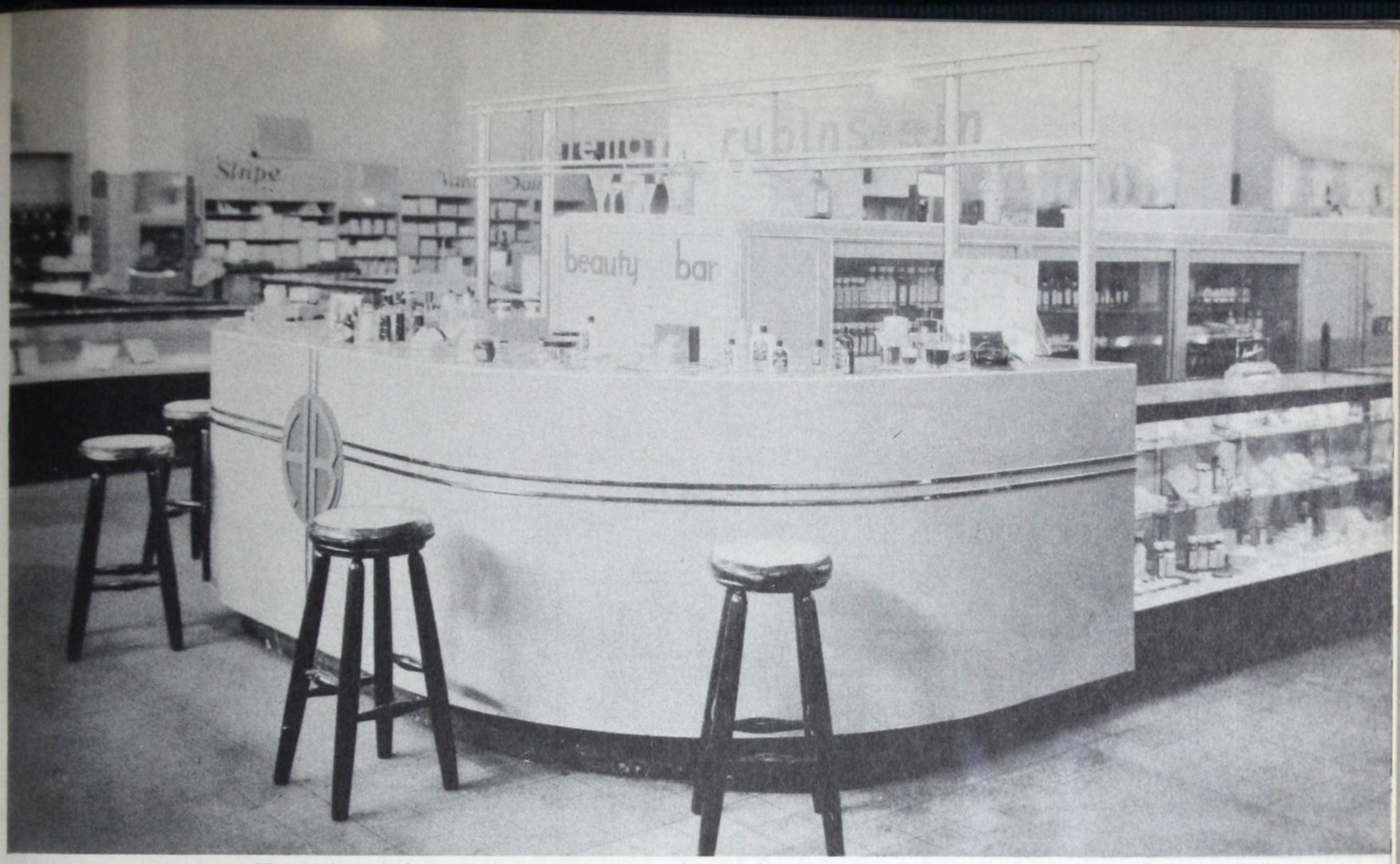
EXTERIORS OF TEMPERED PRESDWOOD STAND DEFIANT TO THE WEATHER

Our own careful tests, backed by the experience gained through thousands of actual installations, have demonstrated that Tempered Presdwood is entirely suitable for covering the exterior walls in many types of buildings. Properly used, it is impervious to weather even under the trying conditions of our climate with its extremes of heat and cold.

Presdwood's remarkable decorative possibilities plus its economy and workability recommend it for store fronts, stores and restaurants, beach cabins, barbecue stands and many other business structures. Its flexibility permits shaping the boards to almost any desired form, while its extreme toughness assures long service with low maintenance costs.

Tempered Presdwood is made waterproof and weatherproof by the tempering process, but, for best service, it is recommended that the boards be finished in the same manner as wood.

Presdwood may be planed, sawed, sandpapered, nailed—handled in exactly the same manner as wood. And it offers the further advantages of being free from knots, grain and splinters; of cutting with the least possible waste, and of considerably speeding construction time.



This Helena Rubenstein Beauty Bar made of beautifully lacquered Presdwood stimulates sales.

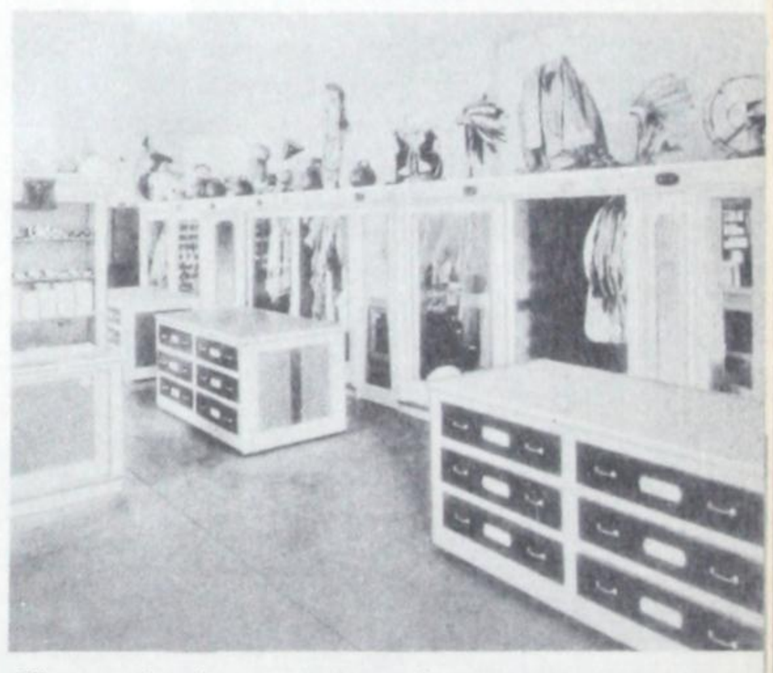
MASONITE HELPS MOVE MERCHANDISE IN AMERICA'S DEPARTMENT STORES

The various Masonite products find a vast number of widely diversified uses in the modern department store. In the greater proportion of these buildings extra insulation is not needed, but Masonite Structural Insulation recommends itself as a wall and ceiling covering because of its unusual sound-deadening and acoustical properties.

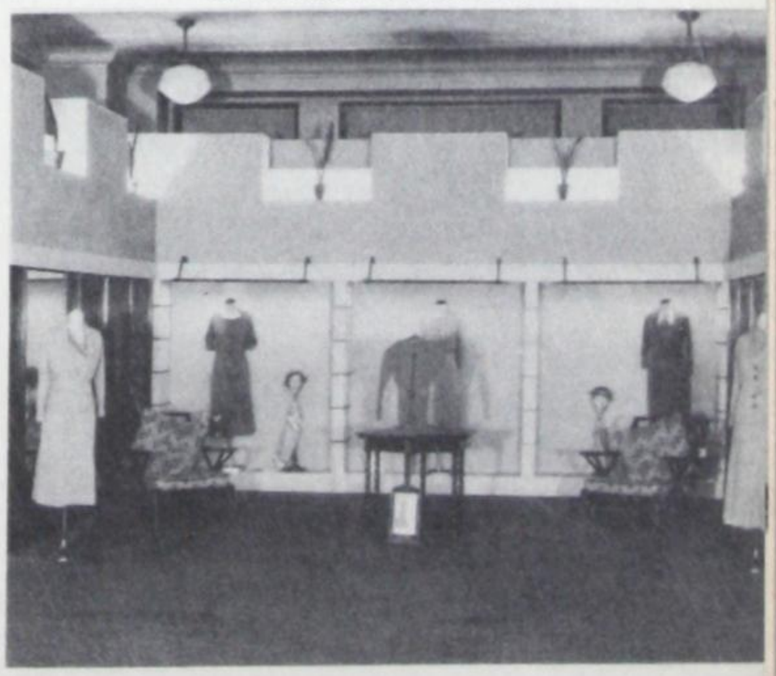
Quartrboard, too, finds its uses for covering walls or ceiling, constructing false ceilings, covering pillars, etc. But it is primarily Presdwood that stars in the department store field.

Not only is Tempered Presdwood ideal for building counters, for counter tops and show cases, dressing booths and partitions, for covering walls and ceiling, but it also has a host of special uses. Consider the possibilities of Presdwood for making attractive window, counter and cutout displays. Its strength and smoothness, its easy workability, its attractiveness and its ability to take any required finish make it ideal for such use.

Here's another small but important point. Presdwood counter tops are free from splinters and will not wear rough—there is no possibility of catching or snagging fine fabrics on them.



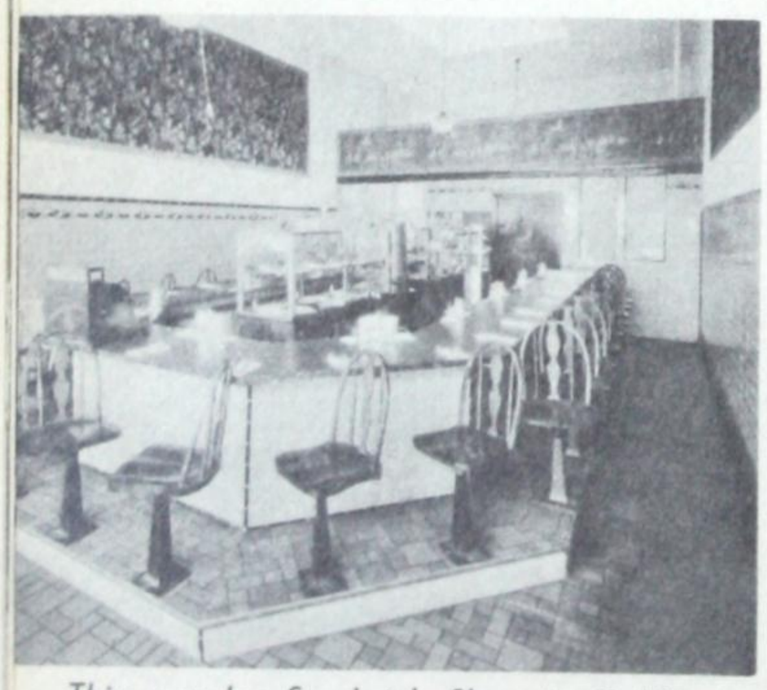
These display cases and counter tops in Marshall Field's Evanston store are made of Genuine Presdwood.



Another display in store of Hudson Bay Company, Winnipeg, Canada in which upward of 80,000 square feet of Masonite was used.



Sidewalls, ceilings, lighting fixtures, tabletops, chair seats and backs are Genuine Presdwood. Entire installation by Marietta Chair Company.



This popular Sandwich Shop in California made clean, bright and attractive by the use of Masonite Temprtile.



Ever lunch at Harding's 23rd Street, Chicago? A Genuine Masonite job throughout.

GOOD FOOD TASTES BETTER IN CHEERFUL SURROUNDINGS

Restaurant men know that the eye has a lot to do with the appetite. That's one reason why they have been so quick to appreciate the value of Masonite products. Another reason is that they are good, practical business men who know that Masonite means a very definite dollars and cents saving in building, upkeep and decorating costs.

The restaurants illustrated on this page are typical of hundreds that have been decorated with Tempered Presdwood and Temprtile. And there's an even larger number that can be made just as clean-looking and inviting by modernizing them with these same materials.

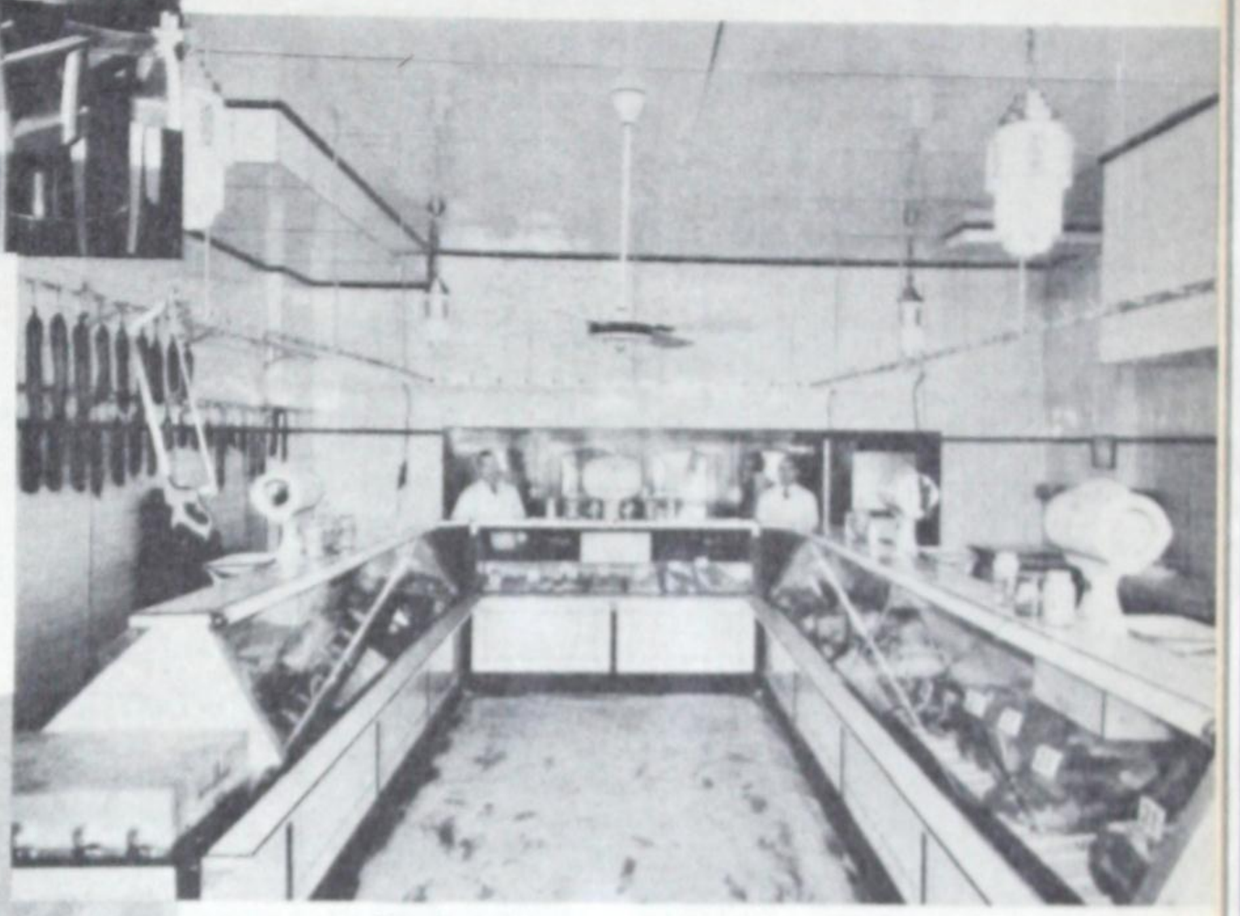
Temprtile and Tempered Presdwood both offer smooth, hard, sanitary surfaces that not only *look* clean but *are* clean. They're easily washed free of smoke, dirt and grime without fear of the slightest injury, and they will withstand a lot of hard usage without showing any ill effects.

Colors? Your painter can give you the exact color effect you want—the rainbow is the limit. And there can be just as many and varied decorative schemes as clever designers can devise.

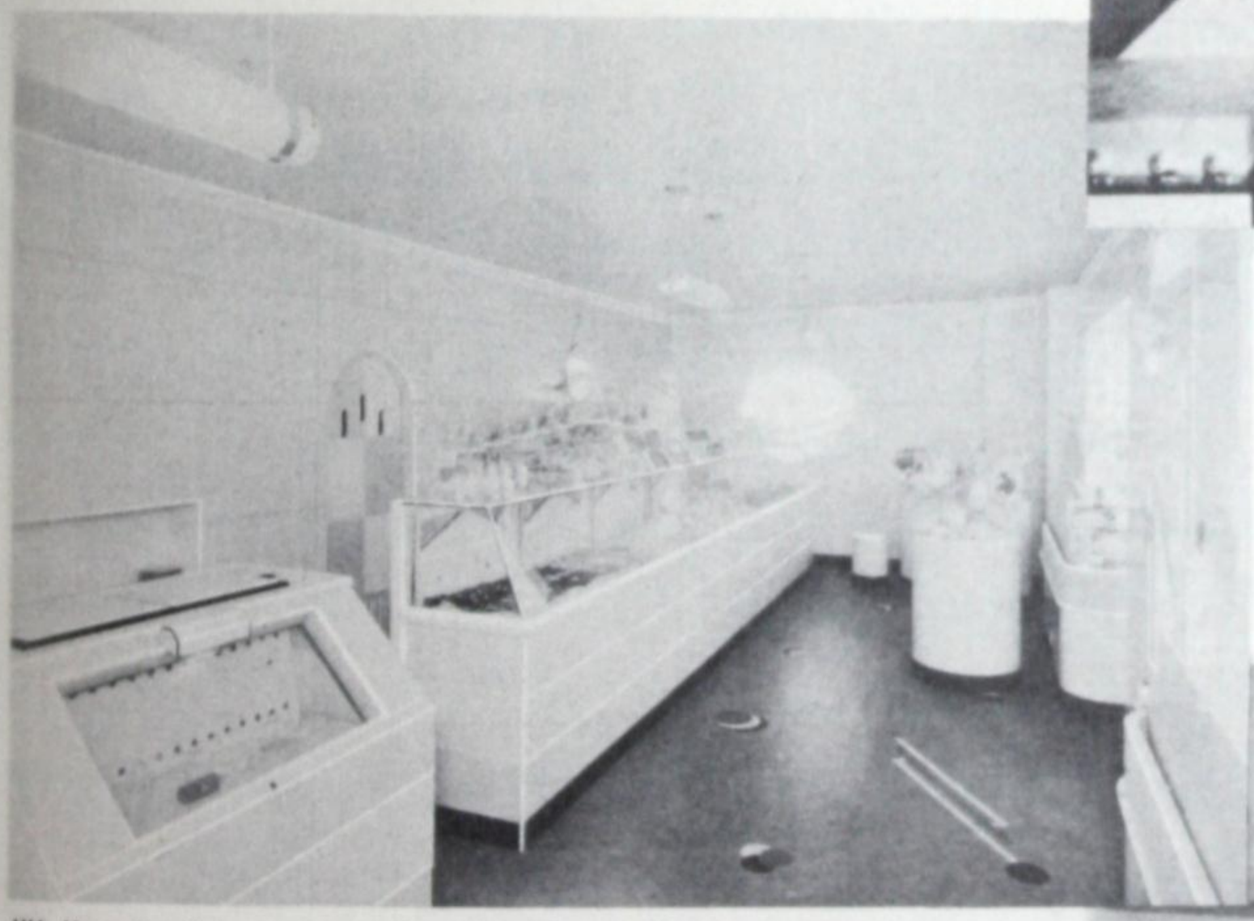
The finest installations of this kind are those made by members of the National Sheet Tile Association who apply their own finishes to Genuine Tempered Presdwood and Temprtile.



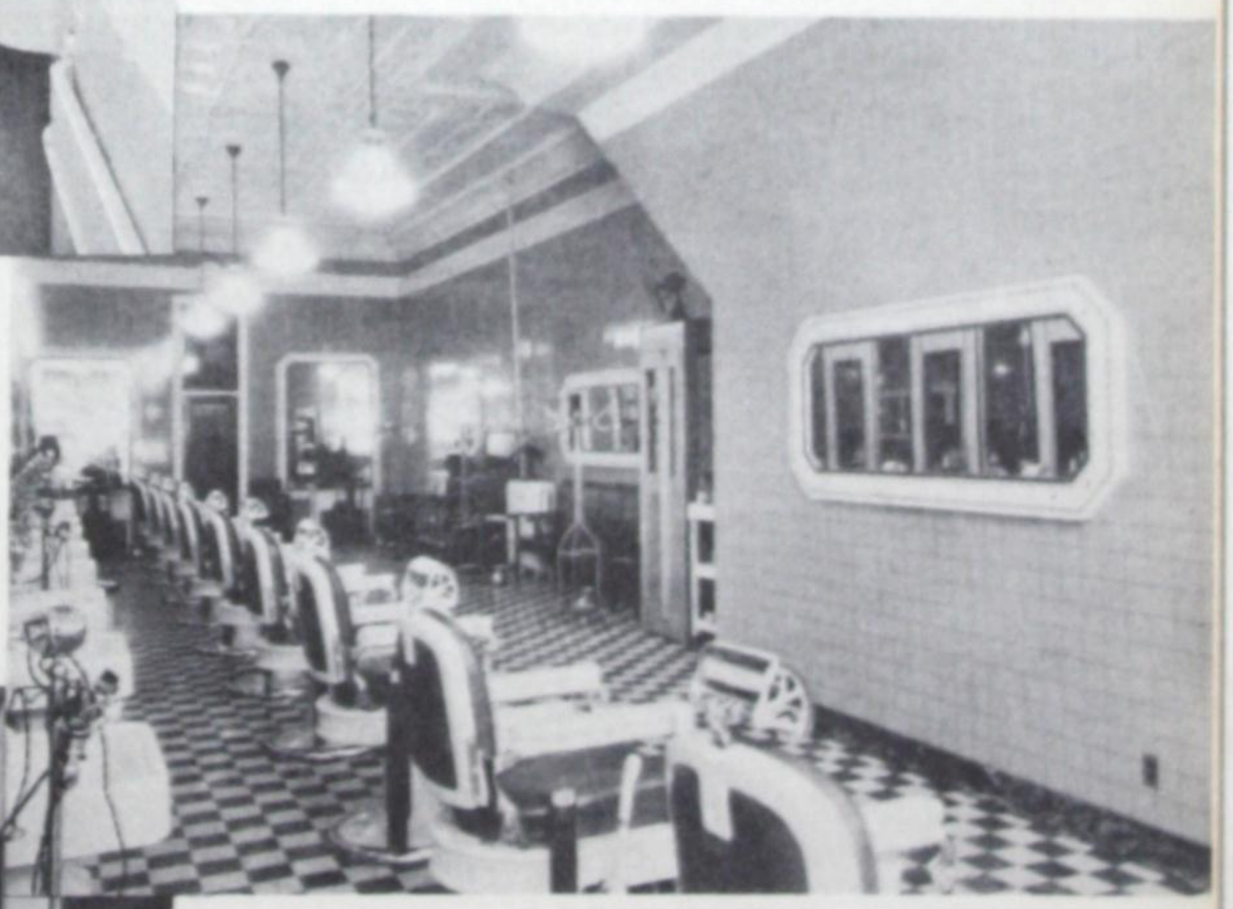
The Cocktail Bar in the Book-Cadillac, Detroit. It is a gay spot, gayly decorated and being built of Genuine Presdwood, it can take it.



Fresh meats, pleasingly displayed in this market with walls and ceiling made bright and sanitary by gleaming Marshtile.



Walls, display cases and pedestals in Mrs. Stover's Candy Store, Kansas City, Mo. are of Genuine Masonite Presdwood.



(Above) The sidewalls of this popular barbershop are covered with Genuine Masonite Temprtile.

(Left) The Temprtile freshness of the walls of this bake shop inspires confidence and helps sell more goods.

We appreciate the courtesy of The Weatherbest Company, Home Modernization and Marietta Chair Company in furnishing us certain photographs reproduced in this book. We also gratefully acknowledge the permission granted us by Marsh Wall Tile Company, Dover, Ohio and California Wall Tile Company, Los Angeles, California to make use of photographs of some of their installations.

100M 3-1-35

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Lithographe

How to secure genuine
MASONITE PRODUCTS
for your home

All Masonite products are sold by retail lumber dealers throughout the country. The greater number of the better dealers carry these products in stock regularly, but even those dealers who do not stock them can furnish them to you at the price prevailing in your territory. Bear in mind that every genuine Masonite board has the name MASONITE indelibly stamped on or burned into the reverse side.

HAVE YOUR ARCHITECT SPECIFY

Most architects recognize the sterling worth of Genuine Masonite products. They know where and how to make use of them most effectively. Ask your architect to discuss their use and value with you. Many of the country's foremost architects have been making use of these products for several years. Neither they nor you take any chances when you use any of the boards in the Masonite line.

INSIST ON GETTING GENUINE MASONITE

Permit no substitution on the claim that another product is "Just as good" for such substitution may prove bitterly disappointing. Insist that your contractor use only Genuine Masonite and check to see that the boards that go into your job are so branded. You know in advance the lasting satisfaction that is experienced where Genuine Masonite products are used.



MASONITE CORPORATION •
111 W. WASHINGTON STREET • CHICAGO • ILL.



Forged Iron Hardware

by McKINNEY

[BLANK PAGE]

FORGED IRON
by . . .
McKINNEY

A HERITAGE FROM THE PAST



WHEN the world was not nearly as old as it is today and living was nearly as complicated, individual smanship was the accepted standard. hose unhurried times, home furnish- were painstakingly made by hand. tings and decorations were executed nasters, and hardware was forged in l by honored artisans who gloried in craft.

ge straps, beautiful handle sets, knock- shutter dogs and pieces innumerable designed in keeping with the best emporary art. The iron forged by the ters of the Italian Renaissance rivalled eauty the precious metal work of that orated silversmith, Benvenuto Cellini, e the hardware of the Early American oid revealed a rugged simplicity acteristic of the Period.

ay, McKinney has recreated in Forged eight of the most beautiful designs lden times. They are the Warwick, ambra, Heart, Tulip, Curley Lock, uscan, Bedford and Dorchester. The erns were selected because of their enticity, their beauty and their adap- lity to modern building requirements.

s no longer necessary to have Forged especially made to order—or pay the es which such work necessitates. Mc- ney has made pieces of every essential racter readily available at your Build- Hardware Merchants. All are accu- ly gauged for application and priced within the range of even the most dest home owner.

ose who rebel against the common- ce, who love the sincerity of old-fash- ed things, will find real pleasure in dying the examples of McKinney ged Iron shown on the following pages this home owners catalog.

Forge Division
McKINNEY MANUFACTURING COMPANY

Main Office & Factory
PITTSBURGH PENNSYLVANIA

Sales Offices

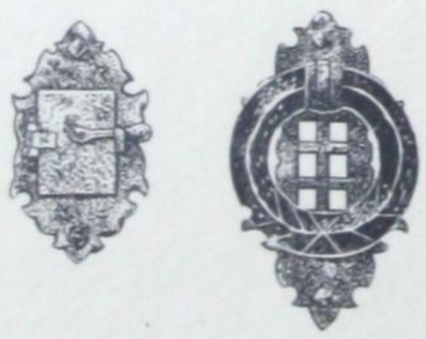
New York Boston
Montreal San Francisco Chicago

Warehouse Stocks

New York Boston Chicago



WARWICK DESIGN



This peep-hole knocker is reminiscent of the days when to see the visitor before opening the door was more than a mere formality. It is very appropriate for use with the Warwick Design (No. 12648 WK).

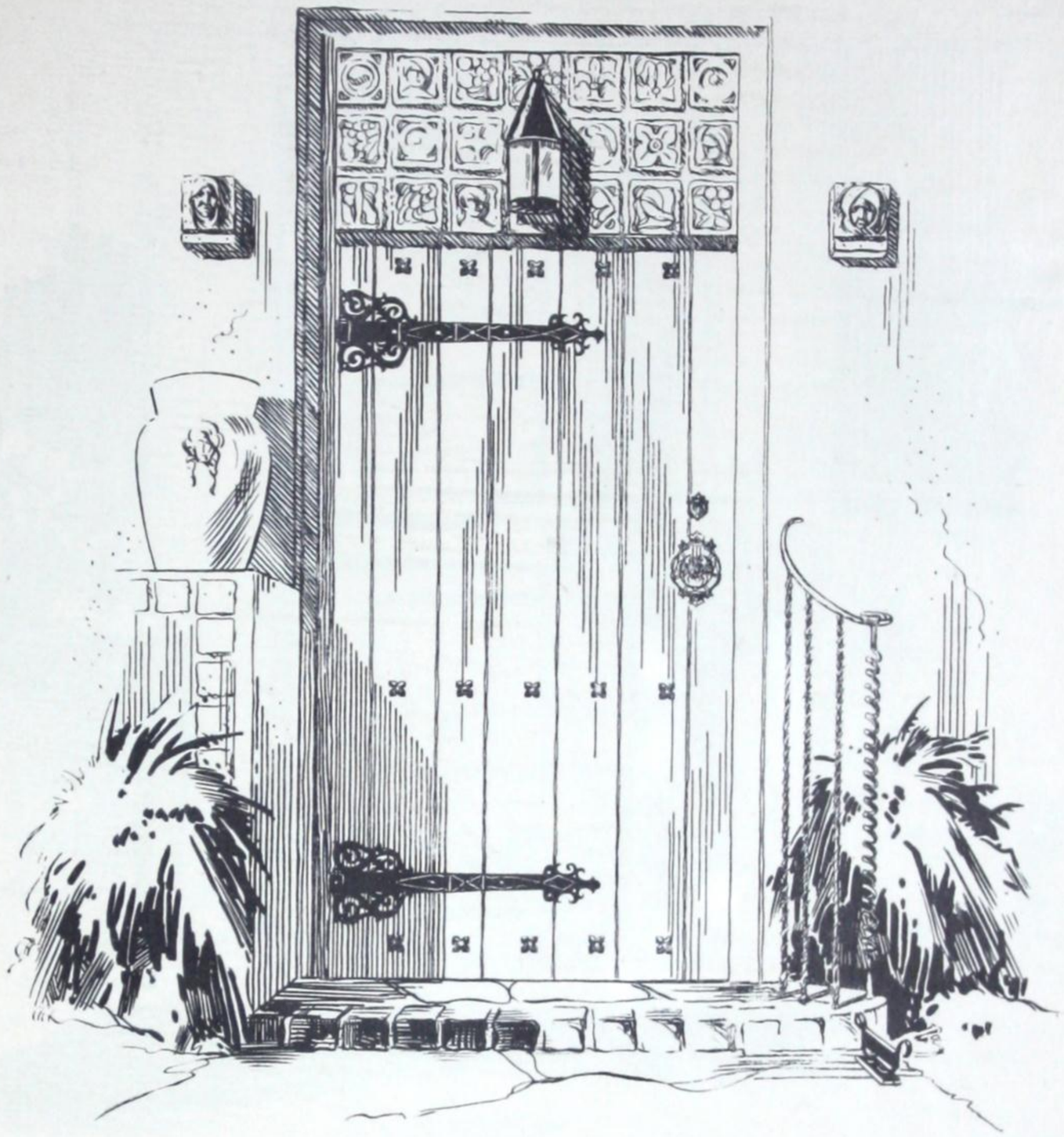


A detailed view of the Warwick Pattern Entrance latch handle. The Escutcheon is seventeen inches long. the grip, five and three-quarter inches from center to center. (No.12569 WK)

WARWICK DESIGN

THE Warwick Pattern illustrated here typifies the best traditions of the far famed Elizabethan Period. The exquisite scroll work of this enduringly beautiful old English design is ideally suited to the ductile character of the metal from which it is made. The Warwick Pattern will harmonize effectively and may be used to definite advantage in enhancing the beauty of your home, if your tastes runs to modified English Architecture.

ALHAMBRA DESIGN



ALHAMBRA DESIGN

ALHAMBRA— one of the most popular of all the McKinney Forged Iron Group— is the richest and most intricately designed. The delicate tracery of this pattern reflects the Moorish influence of glamorous ancient Granada. McKinney now offers you this beautiful Alhambra Design for complete home equipment—even the door studs are available in order to carry out the effect of consummate harmony.



This Drop Ring Handle in the Alhambra Design is surmounted with a cylinder lock and suitable rosette. Outside Diameter of ring, four inches.
(Nos. 12686AA and 12500½AA)





Another Alhambra Drop Ring Handle has an Escutcheon trim carrying out the spirit of the attractive hinge strap design. The Escutcheon is fifteen inches in length (No. 12594 AA)



Even so commonplace an article as a foot scraper may be given grace and attractiveness—here it is after the manner of the Alhambra Design.
(No. 13011)



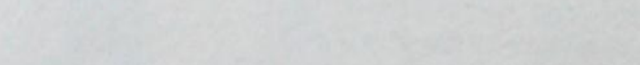
HEART DESIGN

HEART DESIGN

FROM the simple excellence of the Colonial Period comes the inspiration for the Heart Design. Attractively correct treatment of a Dutch Split Entrance Door is illustrated here—and the friendly drop ring handle is at its best against such an appropriate background. Your new home may be outfitted with the McKinney Heart Design from ground to roof.



This surface bolt locks the split door into one unit. Length, four and one-half inches. (No. 12632)



Here is a hinge strap made in the handsome Heart Design. Twenty-two and one-quarter inches long. (No. 12509HT)

Turn knob for throwing dead bolt. (No. 12620).



This drop ring handle is most appropriate for the Dutch Split Door. Its extreme width is four inches; length, three and one-quarter. (No. 12300).



TULIP DESIGN

THIS V-groove batten door, set off with three hinge straps and forged iron entrance handle in the decorative Tulip Design illustrates a treatment of hinges—handle and door that is harmoniously charming—a far cry from the curious medley of hand forged hinges and noticeably modern handle sets which always fail their purpose because of their inconsistency.

TULIP DESIGN



Entrance Handle Set of Tulip Design. The length of the handle is twelve inches. Door pulls of the same design are available. (No. 12500TP)



Here is a Door Knocker in perfect harmony with any period trim. Six and one-half inches long, three and one-half inches wide. (No. 12642)



Hinge strap of Tulip Design. Two sizes are used on the type of entrance illustrated here. Lengths, nineteen and one-half inches and twenty three inches. (Nos. 12509TP and 12510TP)

Turn knob placed above drop ring handle to operate dead bolt. (No. 12524EN)



This attractive Door Knob has a diameter of two inches and a rosette two and three-eights inches wide. (No. 12533)

FORGED IRON
by . . .
McKINNEY



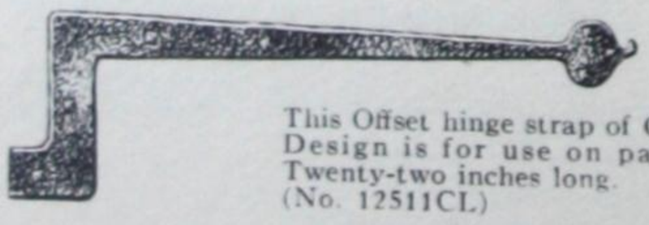
CURLEY LOCK DESIGN

CURLEY LOCK DESIGN

HANDLE set and hinge straps in the Curley Lock Design and the gracefully scrolled knocker provide the accenting notes for this attractively simple Colonial paneled door. In point of workmanship and authentic mannerisms nothing finer is available than these and the several other Curley Lock pieces for use throughout your entire house.



This door knocker harmonizes with the several designs. It is eight and one-half inches long, three and one-half inches wide. (No. 12640)



This Offset hinge strap of Curley Lock Design is for use on panel doors. Twenty-two inches long. (No. 12511CL)

Entrance handle set of Curley Lock Design. The handle is ten and three-quarter inches long. (No. 12500CL)

ETRUSCAN DESIGN

CATCHING the true spirit of the decorous mediaeval workmanship, the Etruscan Design, evolved from the finest examples of old Latin craftsmanship, holds a subtle invitation for just such a setting as is shown here. Spanish or Italian architectural motifs are especially fitted to this stalwart yet graceful design.



ETRUSCAN DESIGN



This door knocker is created for use with Etruscan Design—seven and three-quarter inches long, three and one-half inches wide. (No. 12641)

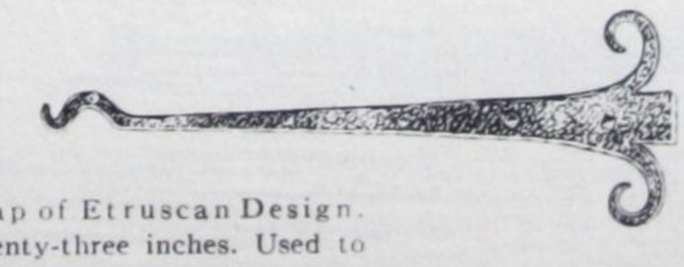




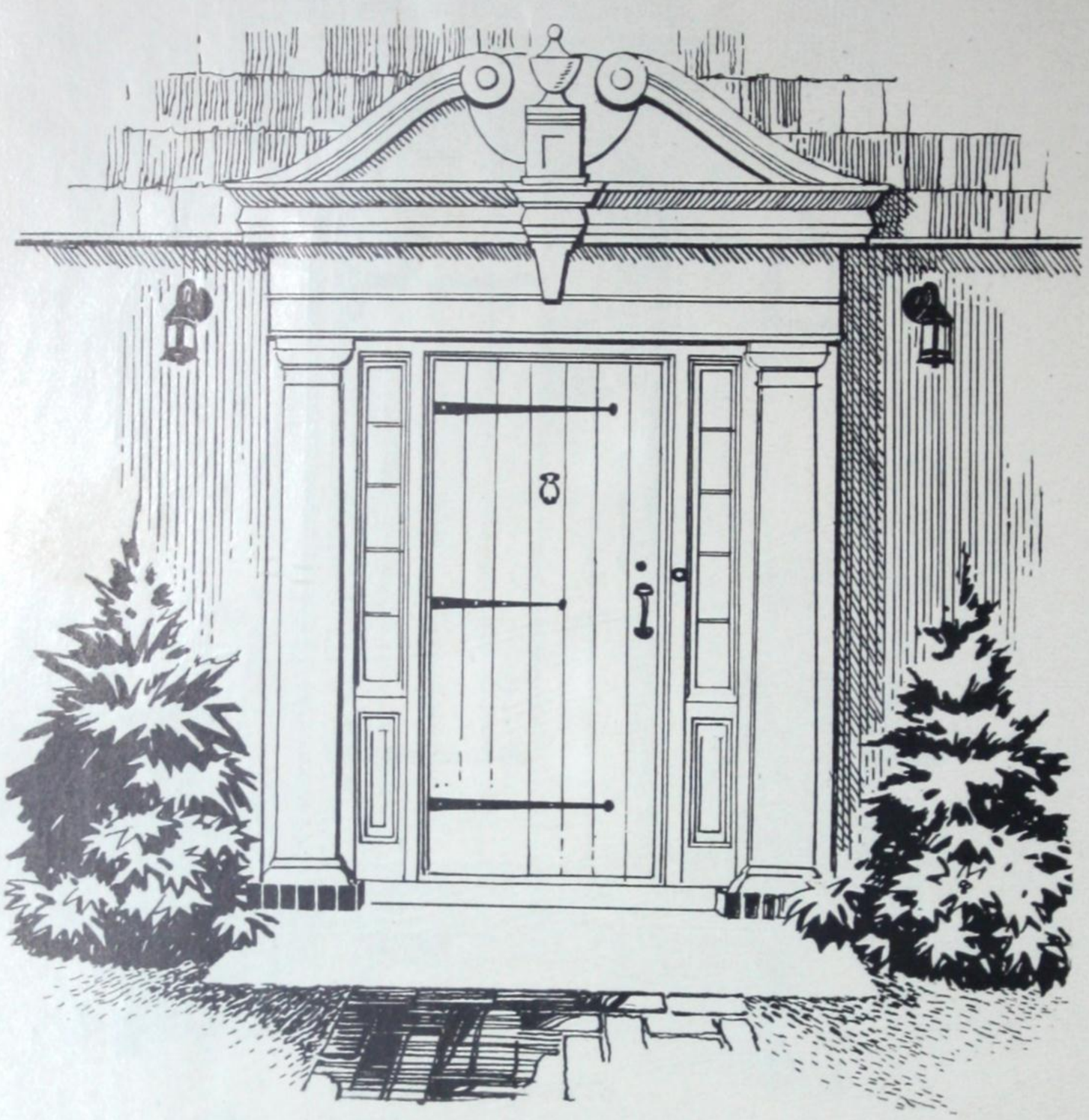
Etruscan Entrance Handle set. The handle is nine and three-quarter inches long. Latches of the same design are available for interior doors.
(No. 12500EN)



This turn knob and drop ring handle of Etruscan Design are for use on the interior side of entrance doors;also on French Doors and other interior doors.
(Nos. 12520EN and 12524EN)



Hinge strap of Etruscan Design. Length, twenty-three inches. Used to trim both sides of entrance door.
(No. 12509EN)



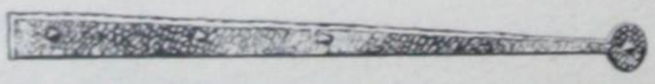
BEDFORD DESIGN

BEDFORD DESIGN

SIMPLE, modern, yet pleasingly reminiscent of the old world is the Bedford Design with its three hinge straps adding consequence to this plainly attractive V-Groove Batten Door. The Door Knocker and Entrance Handle are in complete harmony to give correct finesse to the design—and the McKinney Forged Iron Lanterns on each side complete the theme of the Pattern. The Bedford design is available for outfitting your home to the last detail.



Here is an effective application of the Bedford Design in the Entrance Handle Set. The handle is ten inches in length. (No. 12500BD)



Hinge Strap in the mode of the Bedford Design—two sizes of straps are effectively employed in the entrance illustrated above. Eighteen and one-half inches and twenty-two inches in length. (Nos. 12509BD and 12510BD)



DORCHESTER DESIGN

FROM the romantic mediaeval architecture comes the motif for the V-Groove Batten Door with the completely charming treatment of the Dorchester Design. Three Hinge Straps are utilized in this design which in a quiet unassuming manner indicates strength and enduring beauty. The McKinney Forged Iron Lantern at the right, harmonizes effectively with this design.

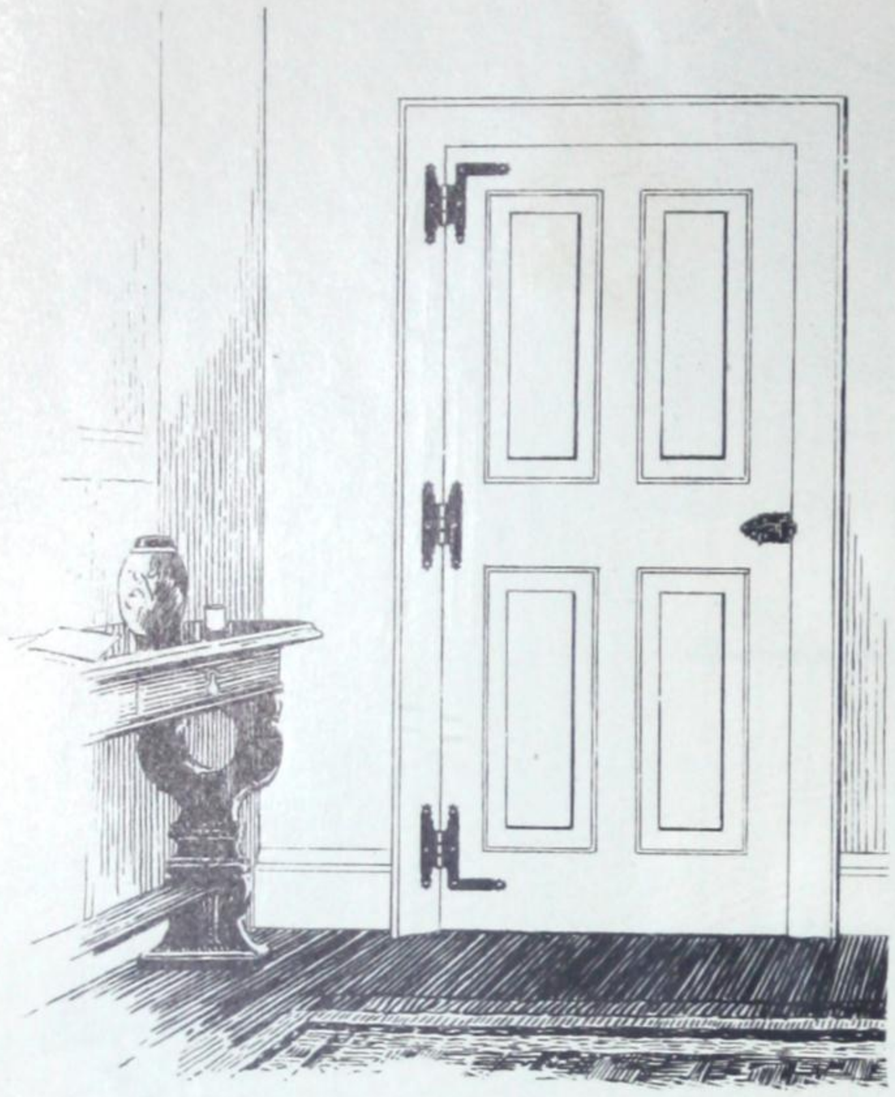
DORCHESTER DESIGN

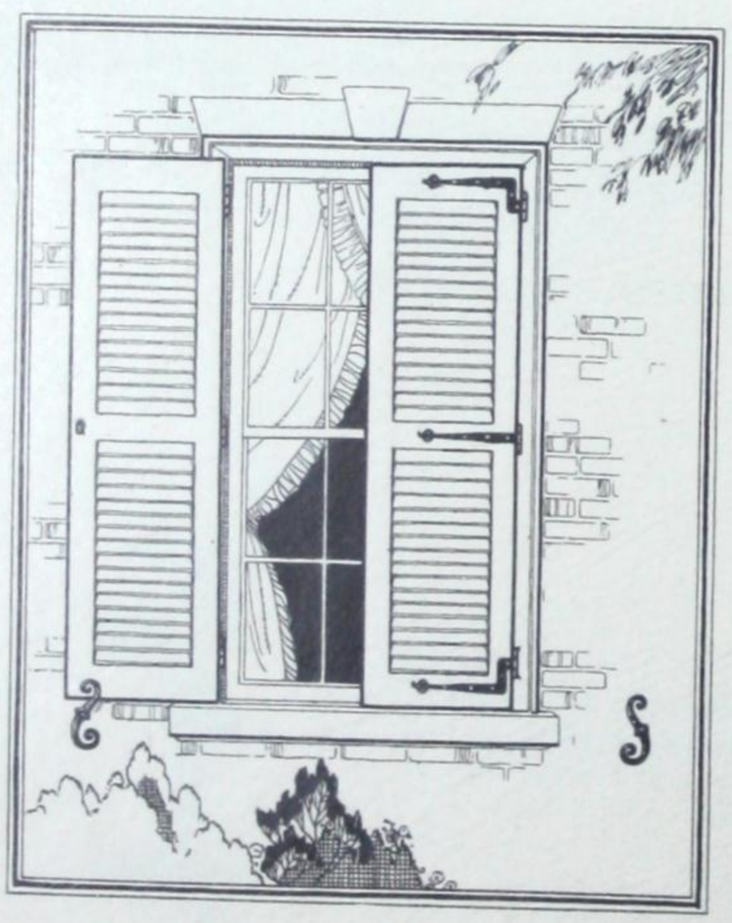


The Dorchester Design is attractively effective in this Entrance Handle Set. Length of handle ten and one-half inches. (No. 12500DR)



This is the Hinge Strap of the Dorchester Design. Two sizes of straps are required to duplicate the entrance illustrated here. Lengths, eighteen and three-quarter inches and twenty-two and one-quarter inches. (Nos. 12509DR and 12510DR)





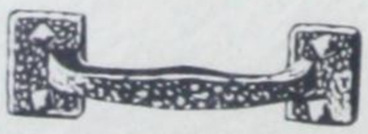
INTERIOR TRIM

DEFT treatment of the interior door is illustrated here with the universally admired H and L Hinge of the Warwick Design with an appropriate thumb latch.

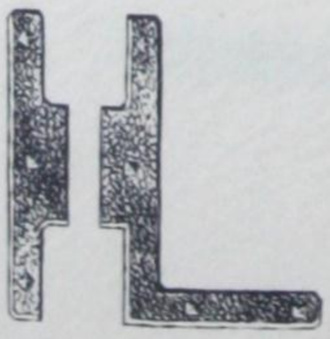
McKinney Forged Iron Trim has been designed in the eight featured patterns of this catalog to cover both louvre and batten shutters. Shutter Equipment includes straight and curved hinges, hinge straps, surface bolts and shutter dogs.

This kitchen group shown below is completely outfitted by McKinney Forged Iron Hardware. Cabinet latches, drawer pulls, surface bolts, casement fasteners and hinge plates are employed. For the sake of enduring beauty and consistency such decorative pieces are invaluable throughout every room of your new home.





Drawer Pull, used with all designs. It is five inches long. (No. 12736)

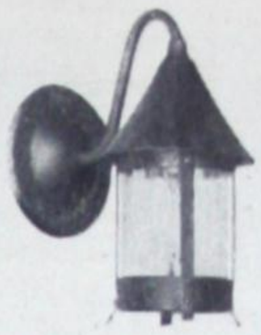


H & L hinge plates for use on cabinets. Each is made in two sizes—four and one-half inches—and six inches long; three and four inches wide respectively. (Nos. 12712-12710)

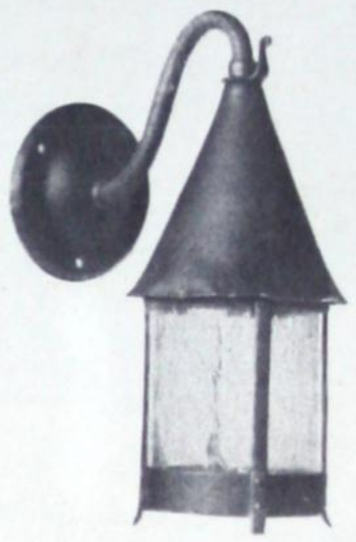
LANTERNS
MAIL BOXES

OVER the entrance doorway in pairs on either side — or as interior decorative fix tures, the McKinney Forged Iron Lanterns impart a very definite touch of genuineness and hospitality.

The lanterns are given a special rust-resisting finish. No expense has been spared in making each lantern a source of permanent pleasure—yet all has been done within a price range remarkable for its economy. Every McKinney Lantern is furnished with a bracket for wall application or a chain and canopy for ceiling installation.



THE WICKET



THE CLOISTER

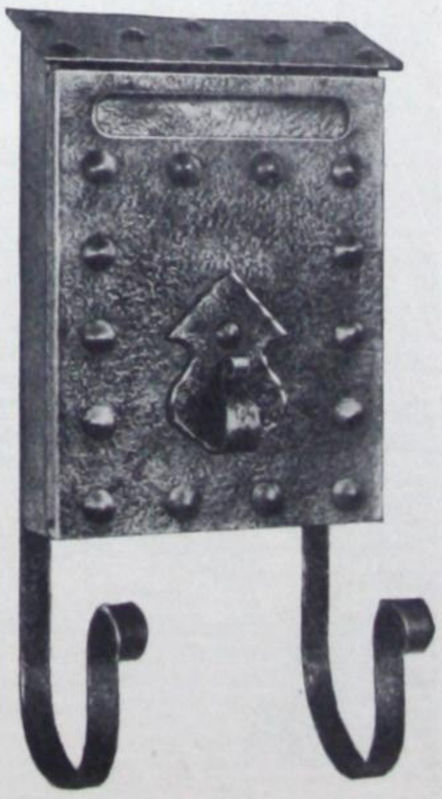


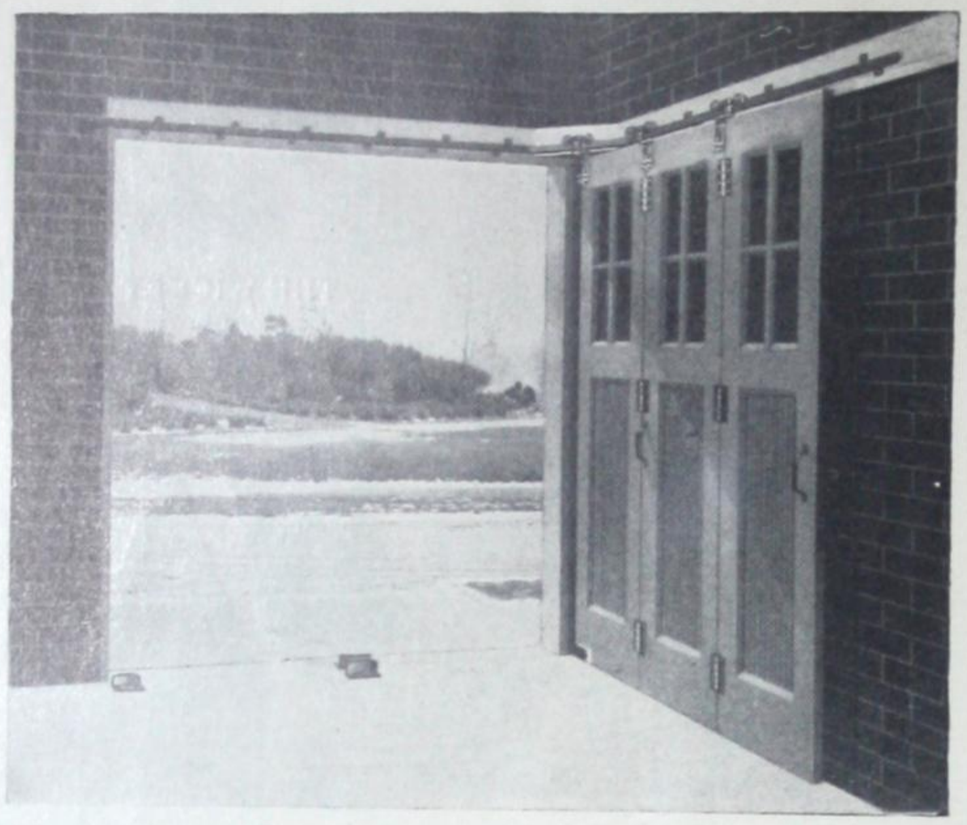
THE SALEM



No longer must the mail box be commonplace—McKinney craftsmen have made a simple mail box into a work of art in this **English Antique Finish**, Solid Brass Mail Box—contributing its deft touch to the enduring beauty of your home. Length, fifteen inches; width, six and one-half inches. (No. 12696)

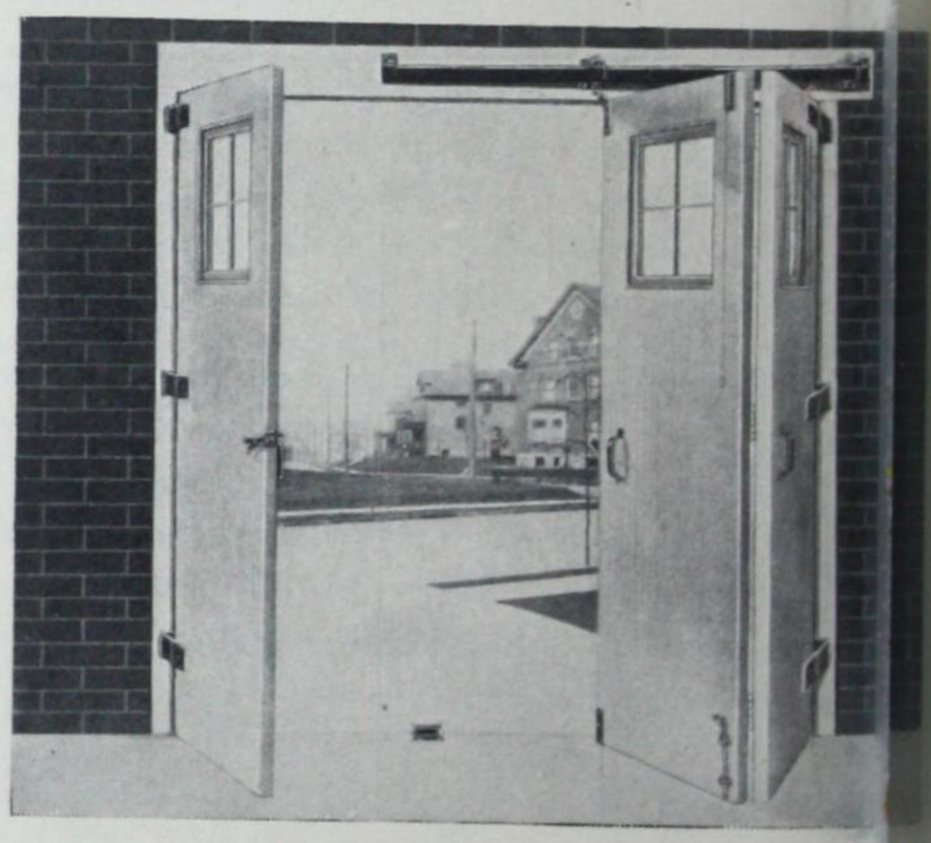
This McKinney Forged Iron Mail Box is capable of holding large envelopes and many of them. The magazine holder is a great convenience, too. Length fifteen inches; width, six and one-half inches. (No. 12695)

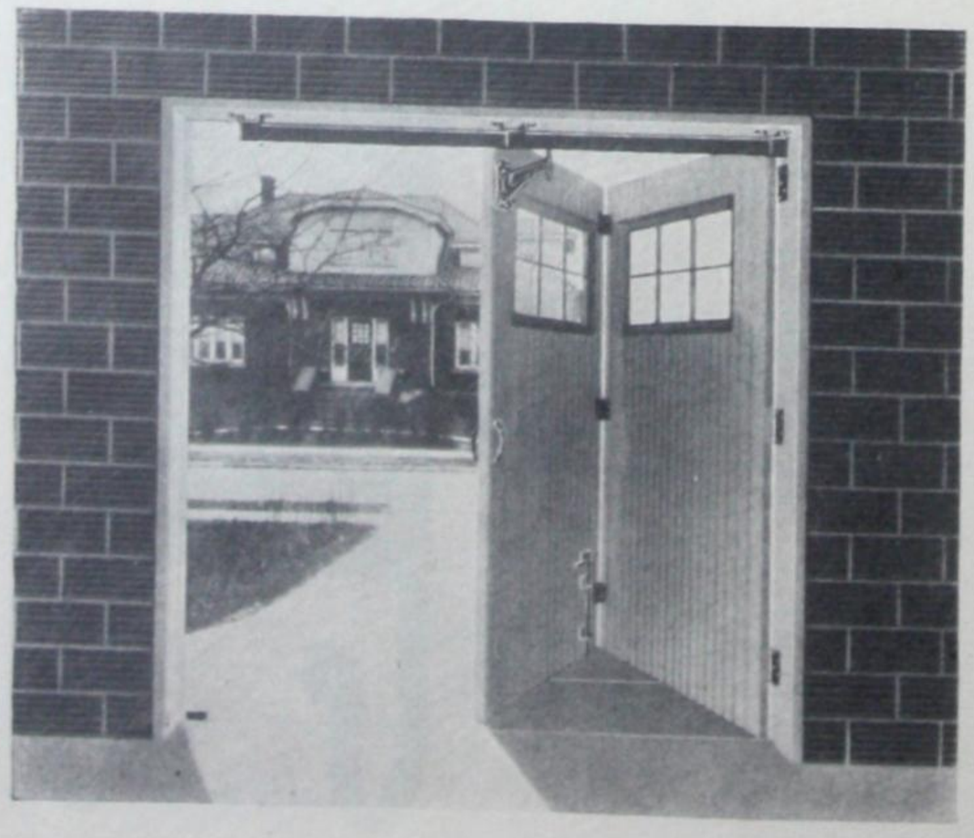




THE "Around the Corner" Three Door Set pre its McKinney Garage Hardware in one of its most po ar applications, where the garage entrance is of the "Ar nd Corner the Type". This three door design is for ope gs from eight to ten feet in width. These doors are tro le-free because there is nothing to come out of adjusti nt. When the set is properly installed, it will operate sati t-orily. The doors will positively not bind on the curve ut will slide around with the greatest ease.

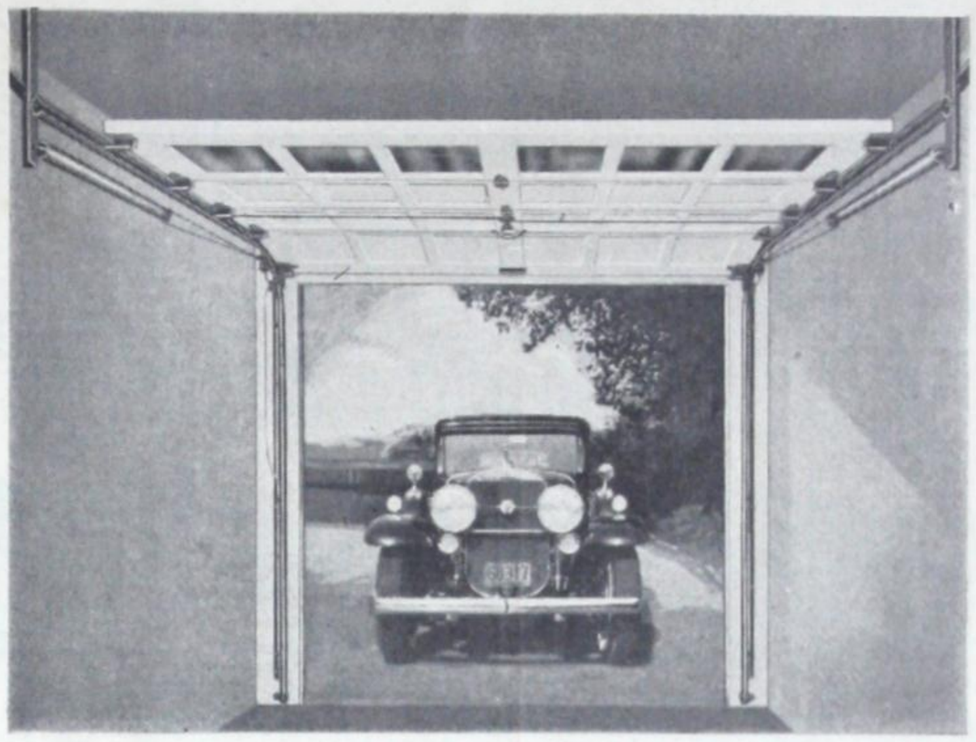
The "Sliding Folding" Set illustrates another milestone of progress in McKinney Garage Hardware Design. This unit em-ploying the Sliding as well as the Folding type is available for a two door set as well as a three door set—and is made especially for entrances up to nine feet in the width. The doors may open either "in" or "out". Incidentally—with McKinney Garage Hardwareon the job—you won't need to worry about "the doors working hard"—they'll open and close as smooth as clockwork.





The "Under the Header" Set is so called becaus he entire entrance unit is constructed directly under the Tr ey Track and thus requires no head room—this desig as found favor in many a new home. The unit illustrated re is designed for two doors—it is also available for three d rs.

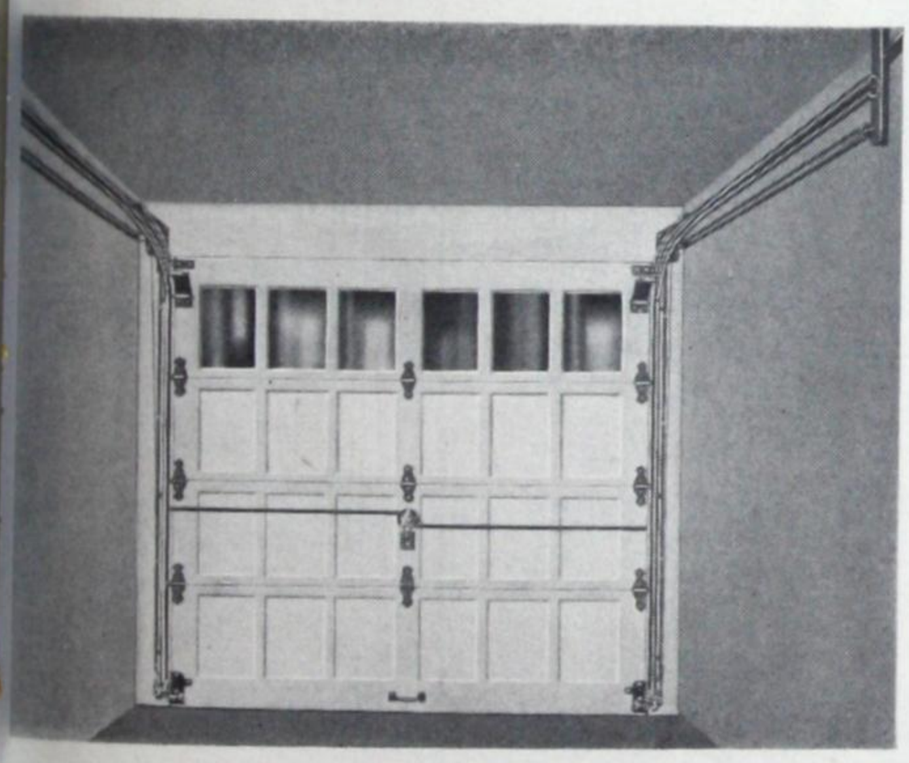
You will be glad to know that in McKinney Garage H rd-ware you are assured bright—durable—handsome fit gs which have been scientifically designed to give you rs of satisfactory service.



McKINNEY Sectional Overhead Doors roll up on vertical tracks and rest on horizontal tracks when open. Only six inch headroom and four inch room on side of opening required. Door will clear opening on lroom specified.

noiseless due to the use of *high tensile* strength lifting es (instead of noisy chain) running in machined groove, -iron, one piece, roller bearing sheave wheels; rubber l, ball bearing rollers and the McKinney method of ng installation, which avoids spring slapping.

headroom and noiseless operation are important when garage is an integral part of the house.



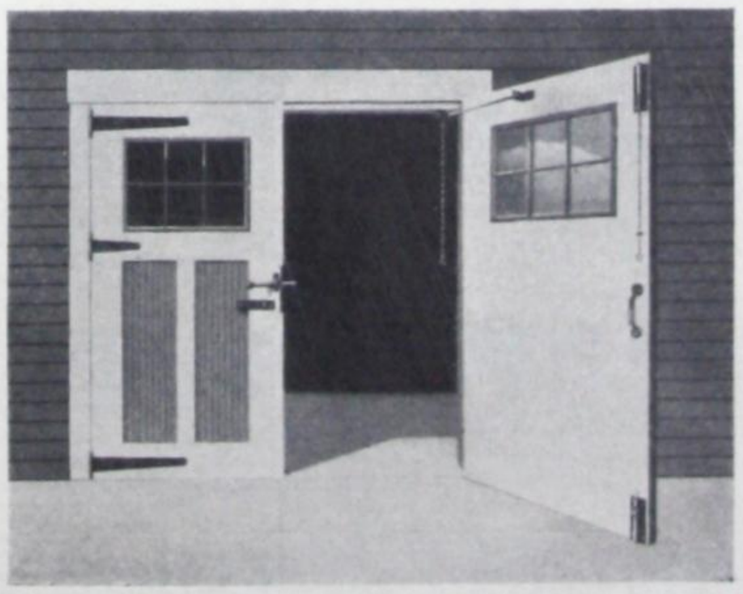
Stock size doors (eight feet wide by seven feet, seven feet six inches or eight feet high) are four sections high, six panels wide, one and three-quarter inches thick, and are made of kiln dried fir lumber with three—eight inch three ply fir panels, top section open for glass.

End and center stiles are five and one-half inches wide, top and bottom rails five and one-half inches, cross-rails four and one-half inches and muntins three inches.

A pin tumbler cylinder type bar lock is furnished, engaging strikes on each side of door with operating handles at center of door.

Hardware is thoroughly Japanned to resist rust.

This McKinney "Swinging Door Set" illustrates Garage Hardware a modest yet highly effective application. Forged Iron Hinges ay be used with this type of set which will add a touch of finesse even the most commonplace. Your new home will be smarter—will tter reflect your true character—if it is outfitted from ground to of—and from Garage to Mail Box with appropriate fittings of cKinney Forged Iron.





The better Builders Hardware Dealers have complete stocks of McKinney Garage Hardware—as well as McKinney Forged Iron Interior and Exterior Designs on display. We cordially invite you to stop in and look at them.

McKINNEY MANUFACTURING CO.
PITTSBURGH, PA.

PRINTED IN U.S.

Modine

presents

Advancements

for Heating the

MODERN HOME

CATALOG No. 434

COPPER RADIATION AND HUMIDITIONER

MODINE • •

DO YOU KNOW THE FACTS ABOUT HOUSE HEATING?

WHEN you come to choose a heating system for your home, you are faced with a decision that will vitally affect your comfort, your health and your pocketbook for years to come. And in such a situation, if you haven't had previous experience, don't take too much for granted . . . don't conclude that all heating systems are very much alike . . . that most any modern heating system in this scientific day will meet your requirements. It's unwise to gamble with systems that are still in the experimental stage of development—and unwise to invest your money in systems that others have found inadequate. To aid you in finding absolute satisfaction, here are the facts that may save you from making a costly mistake.

Today in this country a large number of the best buildings, apartments and fine homes are heated by systems that employ steam, hot water or vapor heat—and the plans for nearly every modern structure in these classes being drawn today call for the installation of one of these systems. This wide acceptance for steam, hot water or vapor heat among leading architects, engineers, and informed men and women is no accident. There are substantial reasons for such a choice.

First, it has been found that steam, hot water, or vapor heating systems are capable of producing comfortable, healthful temperatures in the coldest weather. When properly designed, constructed and installed, they are reliable, durable and efficient in securing high heating values from the fuels used. Remember the original cost of a heating system constitutes only a fraction of the true cost of heat over a period of years! Fuel cost is a major item . . . keeping your heating system in working order is another . . . and here the efficiency, durability and reliability of a good steam, hot water or vapor heating system is reflected in important savings and greater comfort.

Another important advantage of this popular system of heating is its ready adaptability to the design of your home. Your plans and the placing of rooms are not restricted by any limitations of the heating system, for pipes leading to radiators take up but a small space and can be run inside narrower walls or under floors without interfering in any way with the design of the house. Moreover, if you should, in the future, desire to add an extra room or two, or do any remodeling—steam, hot water or vapor pipes can be moved or extended at small cost.



When properly designed and installed, eam, hot water and vapor heating systems e satisfactory from every standpoint. hey've stood the test of time and have per- rmed the important function of giving ealthful heat economically. Because in ost localities of this country, temper- ures over the period of a year are such at you need a warm home, the ability to eat should be the primary consideration choosing a system to keep your house mfortable.

It is interesting to note from the average aily temperature chart for the City of ew York, as shown on this page, that here there are 215 days in the year when heating is equired, there are only 25 days in the whole year hen cooling might be necessary to obtain a normal, omfortable temperature.

From these figures, and considering the average emperatures in the United States, it is unwise to hoose a heating system which lacks the outstanding dvantages of steam, hot water or vapor, with its eady adaptability to the design of your home, the ase with which such system may be extended and he compact, efficient Modine Copper Radiator Units, vhich may be recessed out of sight in the walls. Much is heard, these days, of air conditioning, and t is easily possible, through the installation of sim- ple auxiliary equipment to enjoy the advantages of steam, hot water or vapor heating and at the same ime have both humidification and cooling. It should be remembered that whereas cooling and humidify- ing may be desirable, the primary consideration is heating, and the first qualities to be sought after in heating are reliability, efficiency and economy, such as are provided with a properly designed, properly installed, steam, vapor, or hot water system.



For the purpose of reliably and economically supplying your home with fresh, properly humidified, warmed or cooled circulating air, Modine presents a great modern development—the Humiditioner—which is described on pages 12 and 13 of this book.

Modine Manufacturing Company has done a great deal to advance steam, hot water and vapor heating systems to their present supremacy. With the development of Modine Copper Convector Radiators and Copper Cast Radiators, greater efficiency, economy and comfort was attained. Modine has not only contributed greatly to the science of heating by providing a new standard of living comfort, but also new room beauty by displacing inefficient, unsightly, old-fashioned exposed radiators with concealed-in-the-wall copper radiators and graceful floor and wall cabinet types.

Modine Manufacturing Company is interested in your getting an efficient heating system that will bring healthful comfort and beauty to your home economically. In the following pages, you'll find fully described the advancements Modine has contributed to better heating.

MODINE

CONVECTOR RADIATORS SCIENTIFICALLY DELIVER HEAT TO YOUR ROOMS

THE FINAL touch of perfection to home heating systems is Modine Copper Radiation. To the reliabl and satisfactory steam, hot water and vapor heating methods, Modine has added new efficiency, pr vided a new standard of living comfort, and brought new beauty into the homes of discriminatin people by making it no longer necessary to use bulky, unattractive, space-wasting cast-iron radiator that were good a generation ago, but are old-fashioned today.

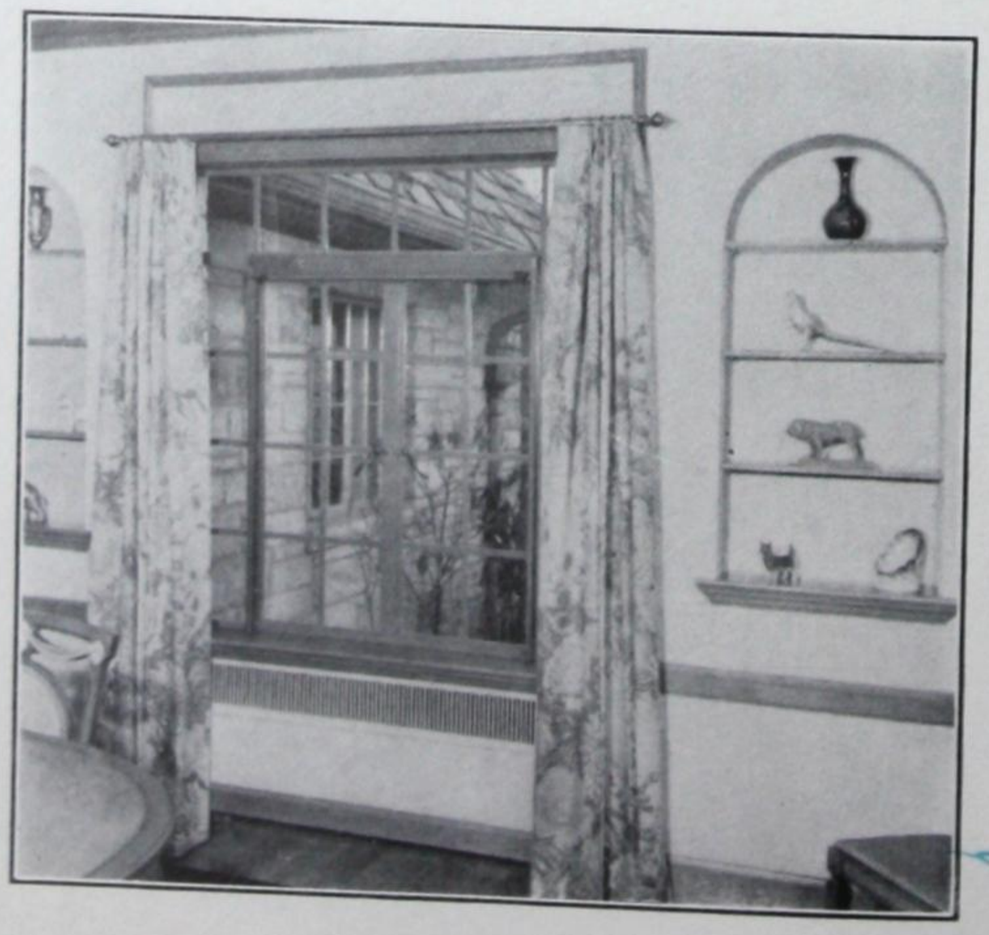
Walk into a fine, modern home heated by in-the-wall type of Modine Copper radiators and you will se how generously Modine has contributed to modern interior decoration and to the perfection of home heatin The rooms seem spacious. The furniture is just where it should be. You are conscious of a pleasing, gentl warmth that permeates the whole house, yet you see no radiators, for Modine concealed heating is installe in the wall, out of sight. Two decorative grilles are the only visible evidence of its comfortable, economica heating effectiveness.

Even the cabinet types of Modine Copper Radiators help to beautify interiors. Of dignified design, they ha monize with the finest furnishings—particularly when decorated in conformity with room appointments. Bot types, the in-the-wall and the cabinet models lend themselves to all kinds of building construction and desig

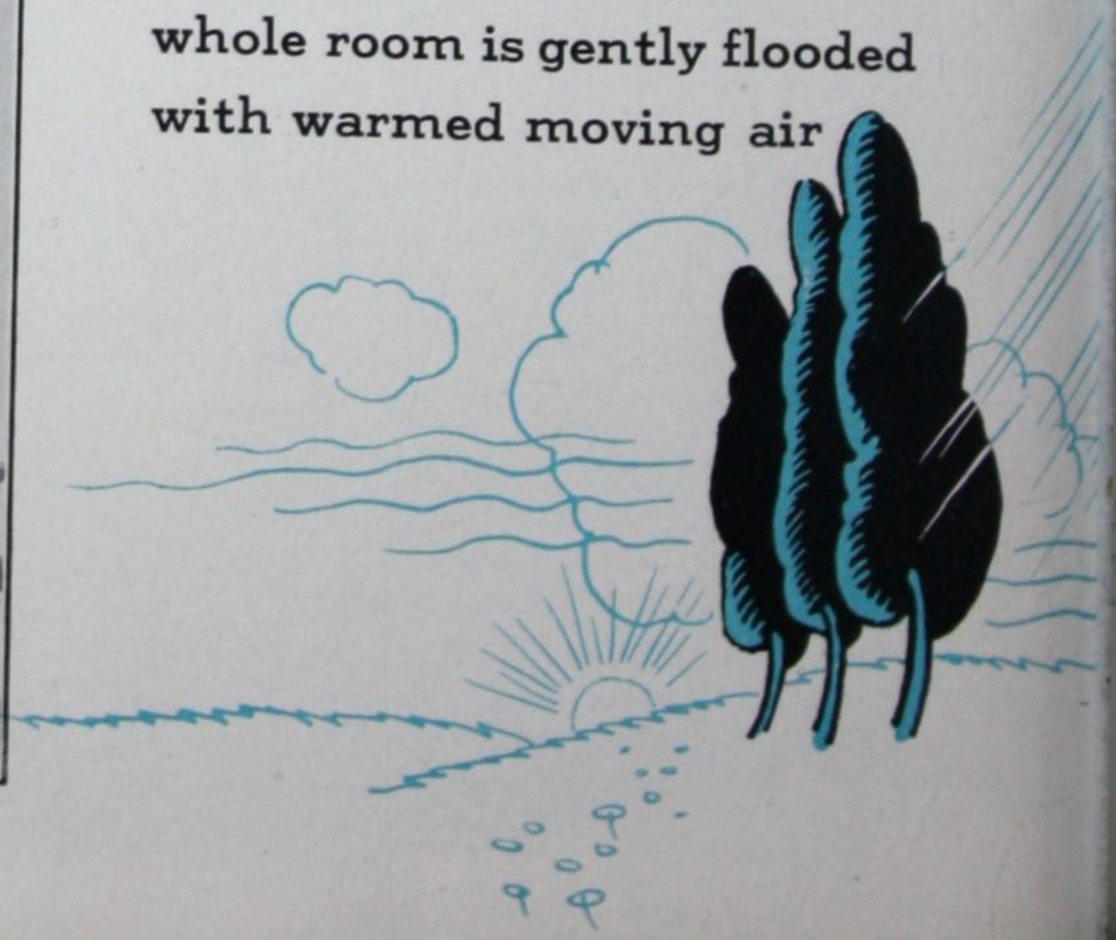
Cleanliness, too, is greatly promoted by Modine heating. The natural circulation of air sent up through Convector Radiator forces the warmed air outward into the "living zone," and not upward along the wall Wall smudging is thus greatly reduced and the soiling of delicate draperies is minimized. Untidiness th results from the bulk and inaccessability of old-fashioned heating equipment is only an unpleasant memor with Modine radiators that blend, most unobtrusively, into any room. They are fast heating, they make you fuel dollars go farther, and they are low in first cost, installation cost and upkeep.

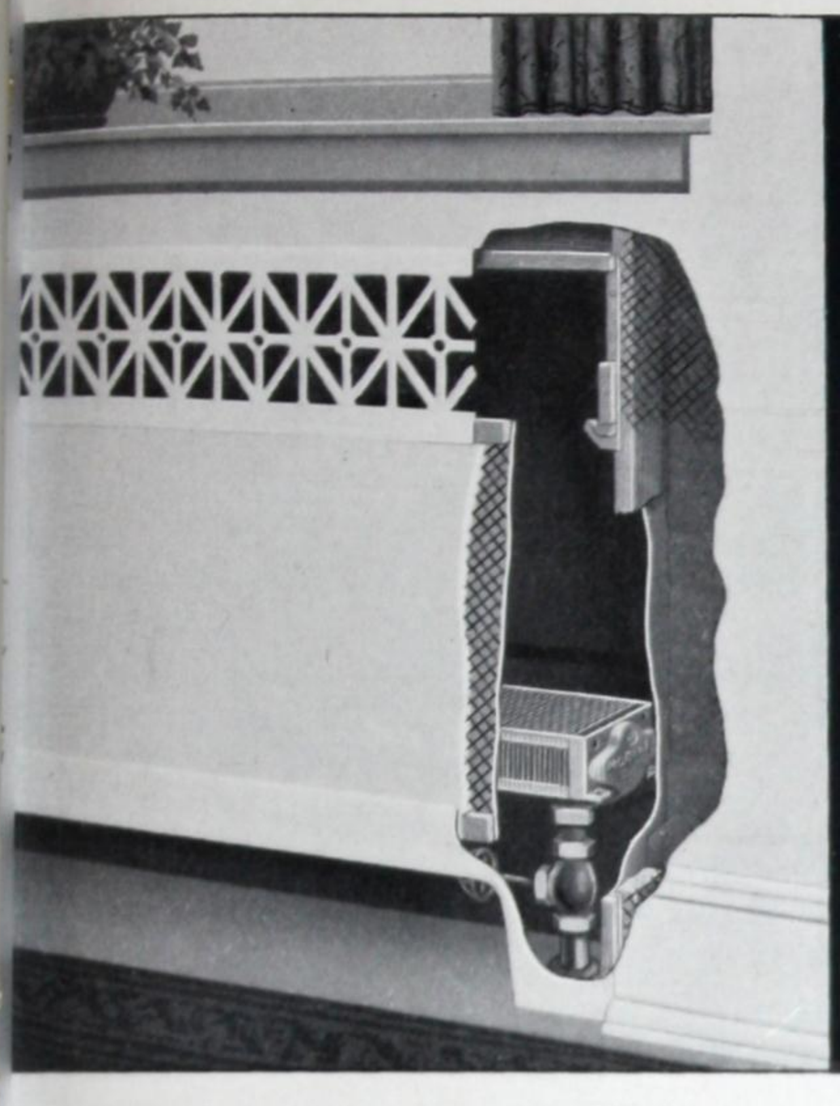
Modine Radiators also have another worthwhile advantage. Thoroughly modern, they will be in style fo years to come; well-made, they will last a long time. Together, these factors lessen depreciation. Ten yea from now, should you wish to sell your home, these modern radiators will appreciably enhance its value.

When it is considered that for an average 6 or 7 room house requiring approximately 500 sq. ft. of radi tion, Modine Copper Radiators cost less than $50.00 more than old-fashioned, exposed cast iron radiators c less than 8% of total cost of heating system, and add less than four-tenths of one percent to the total cost home, their installation is certainly a wise investment. Think of this, in view of all the advantages and econ mies they give you.



You see no radiators yet the whole room is gently flooded with warmed moving air





THESE SMALL AND STURDY UNITS MAKE OLD, CUMBERSOME RADIATORS OBSOLETE

This cut-away view illustrates the simplicity of a Modine radiator installation. The odine metal enclosure is installed in the recess left in the wall by general contractor. nly a small amount of space is occupied at the bottom by the Modine Copper adiator. Metal lath shown is applied on the job, fastened to the wire ties spot-welded the plaster backing sheet of the radiator. After plastering has been completed, only ie attractive grille is visible.

Modine Copper Radiators are among leaders in advanced design, high heating capacity and strength. A unit as illustrated consists of several large, round, seamless copper tubes, on which are spaced vertical, rectangular copper fins. Although fins are tightly pressed to the tubes, non-deteriorating heat transfer is further assured by metallically bonding fins to tubes. The ends of the tubes are spun into brass ferrules which are, in turn, fitted under intense hydraulic pressure into cast iron headers or tanks. Tanks are furnished with a selection of openings, to accommodate varied methods of piping.

Scientifically constructed of the finest materials, the Modine Copper Radiator is built to last a lifetime.



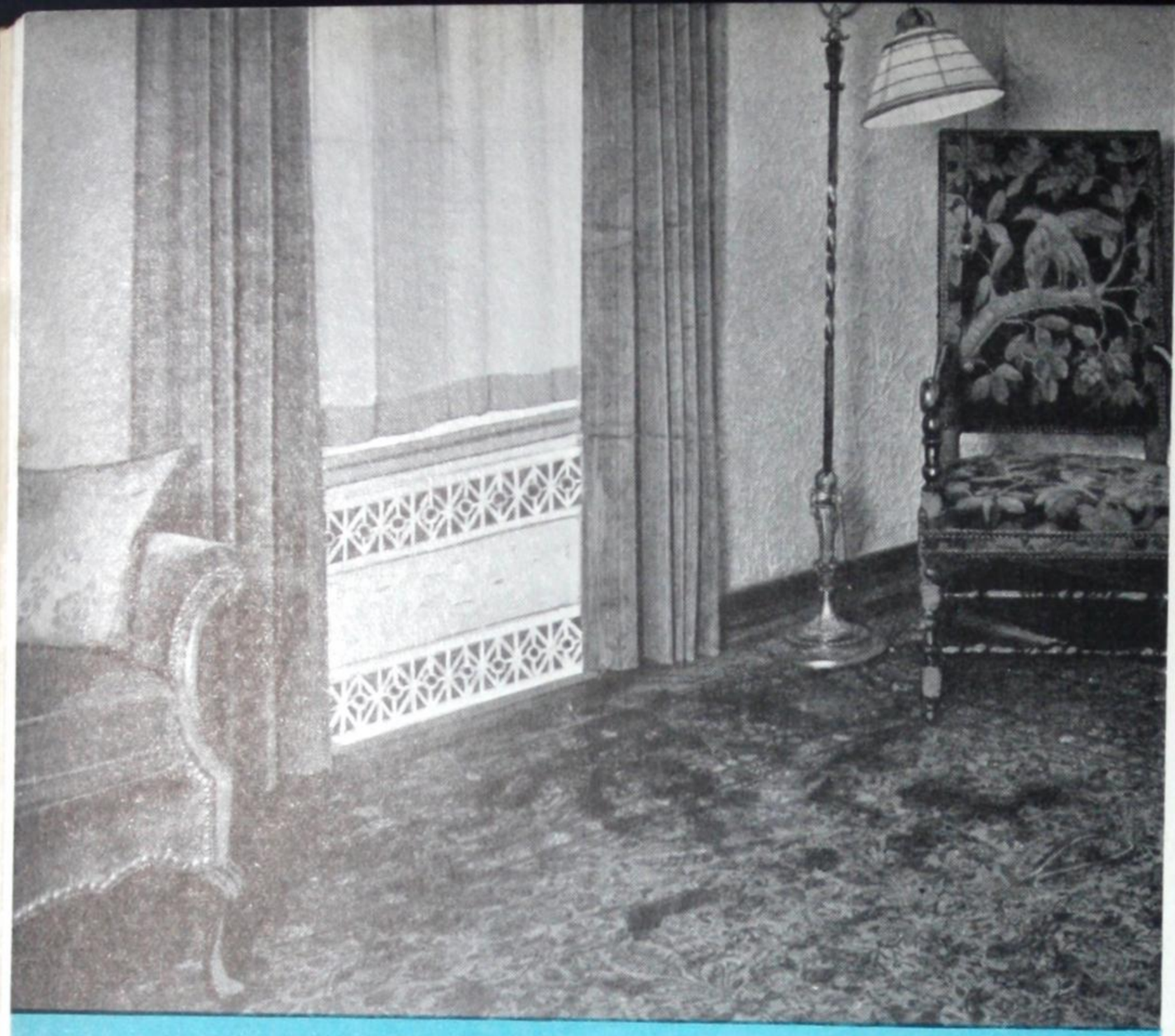
THE MODINE Copper Convector Radiator is the result of eighteen years of experience in developing heat transfer equipment. It has been scientifically designed to produce the greatest amount of healthful, invigorating heat from a convector light yet sturdy in construction.

The heating element consists of several large, round seamless copper tubes, staggered in elevation, upon which are spaced vertical, rectangular copper fins. The principles of design and construction are the same as used so successfully in industrial and automotive applications—they have withstood tests of freezing temperature, terrific heat and the severe service of moving vehicles; hence, in the comparatively light service of home heating, they have proved most satisfactory.

Heating is accomplished by convection. Air, taken from the floor level, is heated by the copper radiator, rises up through the enclosure and then passes with gentle velocity out into the "living zone." Thus a natural circulation of zestful, heated air is maintained throughout the entire room. The result is quicker, better heating, more healthful living conditions, greater comfort and fuel economy.

The convector or heating element is constructed entirely of copper (excepting tanks of cast iron) because copper has a greater heat conducting capacity than any other common material—85% greater than that of aluminum, 250% greater than brass and 700% greater than cast iron! This means that the Modine copper radiator occupies a small space—and transfers heat quicker than other radiators.

The Modine radiator may be used on all types of steam, vapor, vacuum or hot water systems and will give a highly efficient operation at all times. The control of temperature may be accomplished in two ways; first, by regulating the amount of steam or hot water admitted to the radiaor by means of manually or thermostatically controlled valves, or thermostatically controlled systems; second, by regulating the amount of air passing through the radiator, by means of a manually operated damper. Damper control can be furnished at slight additional cost.



simple construction

complete accessibility

Rear view of grille. Note inwardly flanged grille openings to add strength, and rounded edges to promote close fit against wall. Also felting to prevent smudging of wall above grille.



This shows enclosure with front (plaster backing sheet) in place. Observe wire ties for metal lath; ¾″ ground strips to allow for thickness of lath and plaster; knockouts that are provided at each end of the enclosure. Observe also how bottom of enclosure is flanged to secure rigidity.

Rear view of enclosure. Note provision for ½″ of insulation —no increase in depth of wall opening necessary.





IN THE living room illustrated to the left is a Modine Concealed Radiator installation. See how the absence of old-fashioned, bulky radiators permits a large variety of room arrangement! Picture in your mind how furniture in the living room of your new home could be arranged if heat were supplied by Modine concealed radiators!

Little restriction is imposed upon the scheme of arrangement for pictures and hangings so long as the unobtrusive grilles are not covered. With bulky radiators gone, most of the old accepted restrictions on home decoration vanish and the usable floor area of the room is increased.

The concealed type consists of a Modine copper radiator housed in a steel enclosure, having at the bottom and top respectively, an air inlet and outlet opening. A separate steel sheet acts as a front for the enclosure, and is screwed into place after piping has been brought to the radiator and before plastering is done.

After the radiator and enclosure are installed in an opening left in the wall by the building contractor, metal lath and plaster are carried across the front of the enclosure, and the grilles fastened into position. To assist in reducing wall discoloration, felt strips are securely fastened to the rear of the grilles.

The installation of the Concealed type is easy, simple and trouble-proof. The only preparation necessary in the wall opening to receive the radiator is that it must be framed for nailing of the enclosure, and a wood strip be provided at the floor of the wall opening for fastening the bottom of the lower grille. If a lower framed opening is used rather than a lower grille, the latter provision is not necessary.

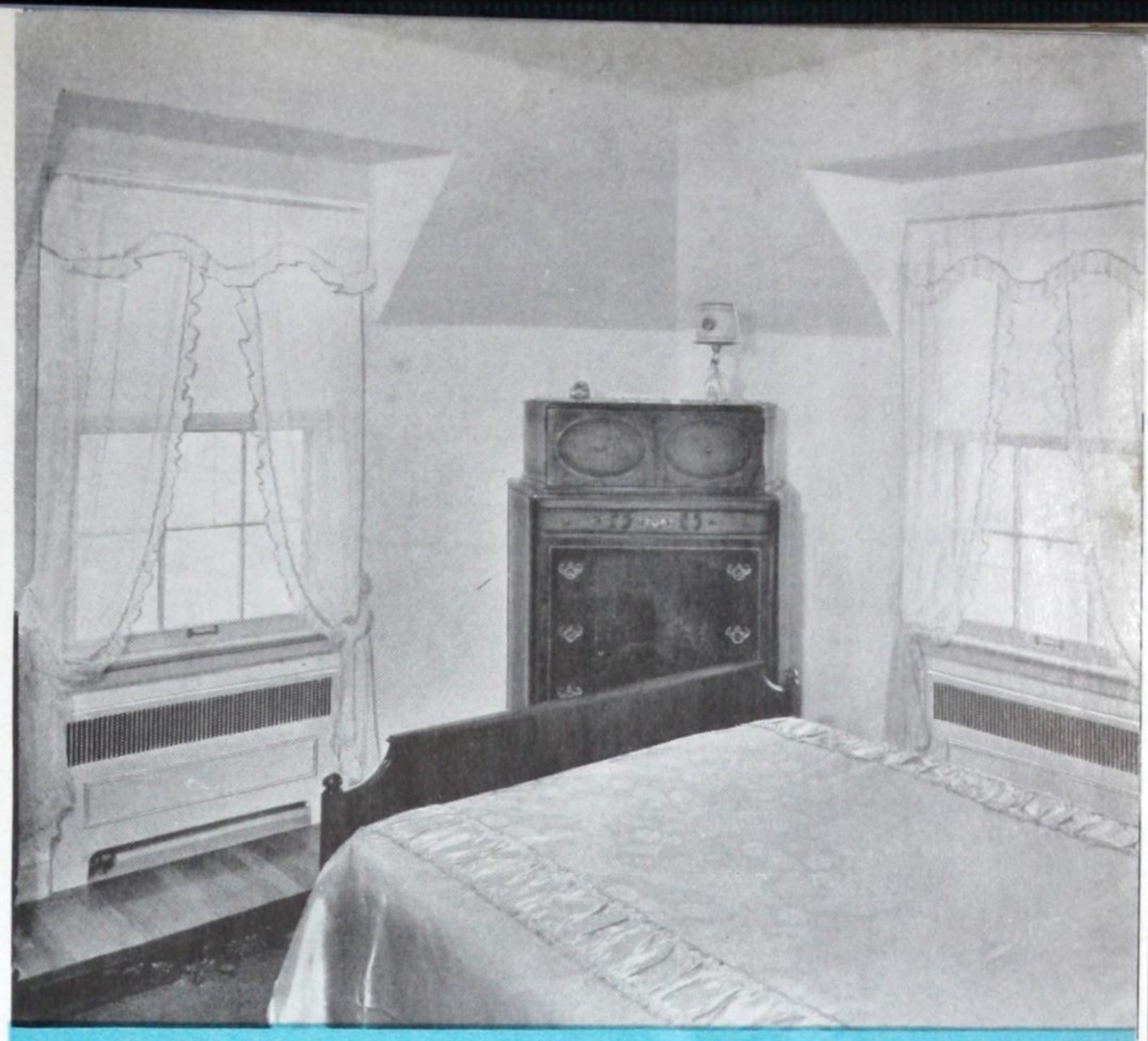
When installation is completed, the only visible parts of the radiator are the grilles, and they can be decorated to harmonize with the wall finish so that they are scarcely noticeable.

IN THE illustration is a typical Recessed Radiator installation. This type of radiator possesses most of the advantages of the Concealed installation—it is also designed to be installed in the wall, and the only difference is that the front is not plastered like the installation described on the opposite page.

With the Recessed Radiator, you gain usable floor area by doing away with old-fashioned, space-wasting radiators. They may be installed under windows or made to blend quietly into the pattern of a panelled wall. With proper decorative treatment, they can be made to harmonize with open wall spaces—and in brilliant modern rooms, their simplicity of outline offers excellent opportunity for decorative color spots.

The assembly consists of a Copper Radiator and a steel enclosure installed in a wall recess. After the radiator piping has been completed, the recess opening is completely covered by a separate steel sheet (backed with felt around its perimeter), which acts as a front for the enclosure and is fastened to it, slightly overlapping the plaster. The air inlet and air outlet are part of the front sheet. After installation the front is decorated to harmonize with the room color scheme.

For this type of installation, the general contractor provides ground strips for nailing the enclosure into place. Although all parts of the Recessed assembly are accessible even after installed, by unscrewing the front, easier accessibility can be had by means of a removable front. This can be furnished at slight additional cost.



characterize the in-the-wall types



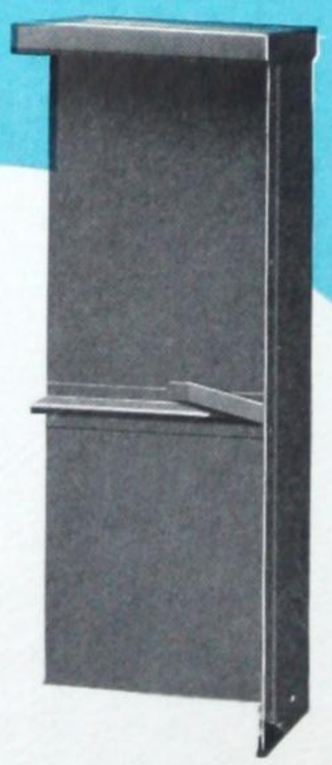
A rear view of the Recessed front. Note felting around its perimeter, the horizontal "V" support to give rigidity. Back to front middle supports are also provided on the larger sizes to eliminate buckling or rattling of the front after installation.



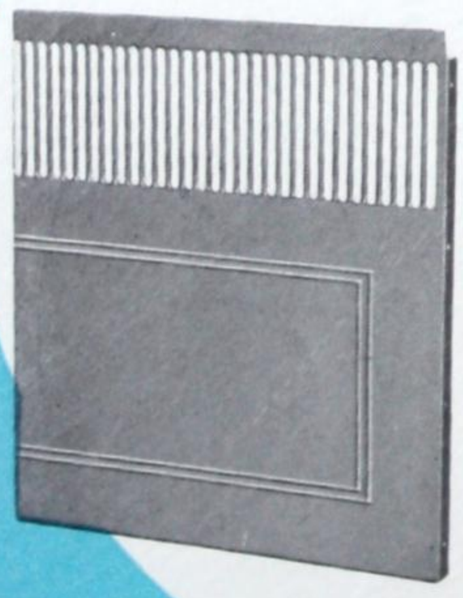
The steel enclosure housing the radiator. The enclosure duplicates that used in the Concealed type excepting that no plaster backing sheet or ground strips are furnished.



cleanliness and beauty



The Wall Cabinet enclosure. Rigidity of installation is not dependent entirely on the heavy gauge of steel used—note the horizontal "V" support on the back of the enclosure; also the corner or "knee" reinforcements.



The front of the cabinet. The front is formed with edges turned back to add sturdiness and to provide means for fastening it to the sides of the enclosure.



Rear view of the Enclosure.

THE WALL CABINET type of Modine Copper Radiators is designed for installation where recessing of radiators in the wall is impossible. It is also widely used in replacing obsolete types of radiators, as a part of building modernization. For this latter application, the Modine radiator is most applicable, since it can be provided to accommodate most any method of piping.

The cabinets are modern in design and most attractive in appearance. Decorated to conform with room color schemes, they constitute a pleasing additional piece of furniture to any room.

The Wall Cabinet is designed to be suspended from the wall. Due to this method of installation and to the elimination of legs, it is very easy to keep spotlessly clean. It also can be furnished with a removable front, thus giving complete and easy access to the radiator and enclosure for thorough cleaning.

The Wall Cabinet consists of a copper radiator, a steel enclosure, which is fastened to the wall, and the front, which is screwed onto the enclosure. Like other Modine Radiators, the Wall Cabinet is very easy to install.

The installation of Modine Radiators, in place of obsolete types of exposed radiators will prove a profitable advance to greater room attractiveness and cleanliness, plus a positive gain in heating effectiveness and economy.

THE MODINE Floor Cabinet is designed to be installed either fully exposed or partially recessed into the wall, the same unit being used in either case. A partially recessed installation is shown in the lovely room at the right.

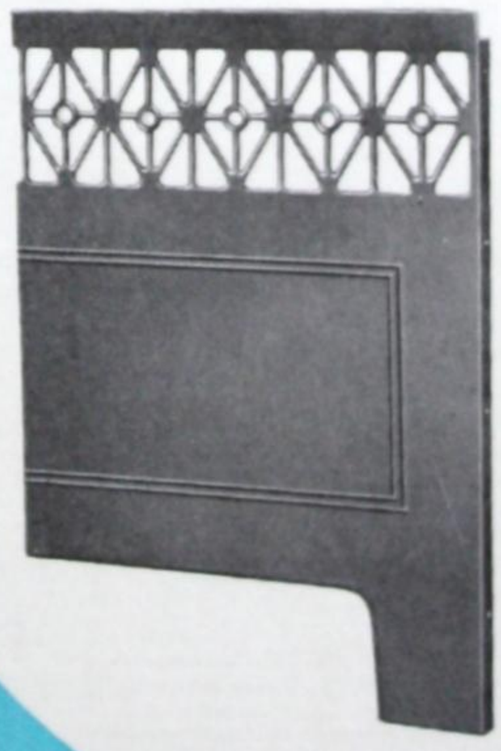
The Floor Cabinet practically duplicates the Wall Type in construction and assembly, with the exception that it is designed to stand on the floor. Like the Wall Cabinet model, it also is ideally suited to replace obsolete radiators when home modernization plans are undertaken. When partially recessed into the wall (something that can be done in remodeling operations usually at small extra expense) it gains a lot of usable floor area and makes interior decoration less restricted.

When a Floor Cabinet is to be partially recessed in the wall, a slight space should be left around the perimeter of the cabinet where it approaches the plaster. This openning can be covered later by moulding. This provision eliminates the possibility of plaster crackage at that point and makes possible an artistic panel effect in the wall.

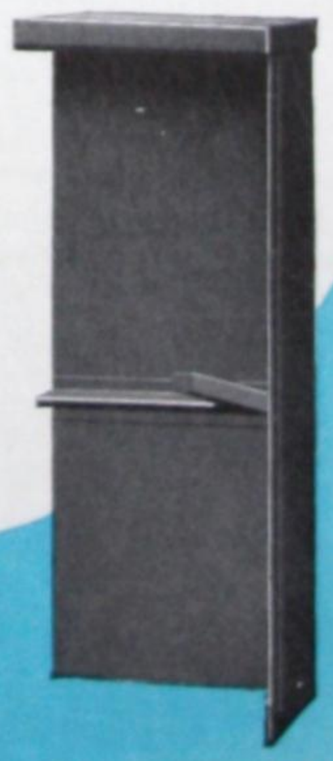
The designs available in the Floor Cabinet models are dignified and very attractive. When the cabinets are decorated to harmonize with the rest of the room color scheme, they cease to look like radiators and become a useful and beautiful addition to the furnishings of the room.



feature the cabinet types

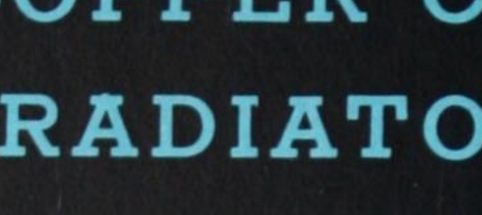


As in the case of the Wall Cabinet, the front is also to be fastened to the enclosure sides after piping is completed. Removable fronts can also be supplied.



The enclosure duplicates the one used with the Wall Cabinet Radiator.

MODINE
COPPER CAST RADIATORS
ESTABLISH A NEW HIGH EFFICIENCY IN HOUSE HEATING



Combining two proven heating principles

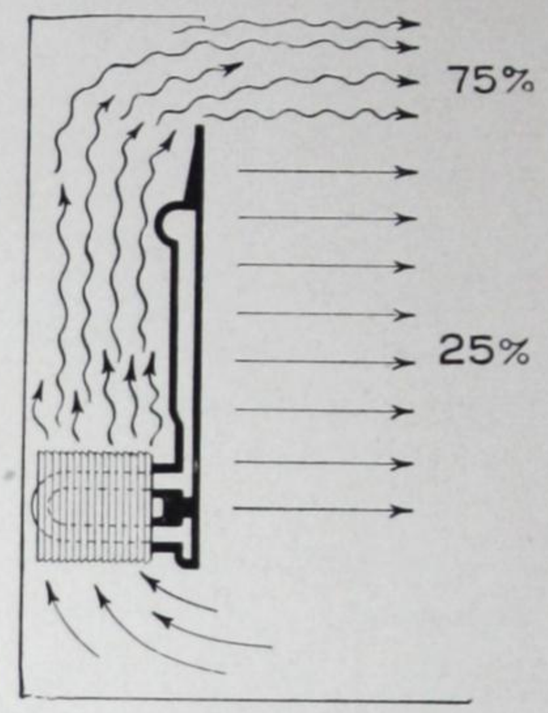
Modine Copper Cast Radiators are a development of supreme importance for those wishing radiators that possess the peak in heating capabilities. Two proven heating principles are combined in one unit.

1. Convected heat—the warmth of a breeze from sunlit fields—is furnished by the copper convection heater behind the cast iron front. It is "alive," refreshing and healthful. Its gently moving current finds its way to every part of the room.

2. Radiated heat—the heat of sunshine or of the old-fashioned stove—is supplied by the vertical cast iron front of the Copper-Cast Radiator, keeping floors warm and assuring a maximum of comfort.

Modine presents these new Copper-Cast Radiators with the belief that they represent the most highly perfected heating transfer units available.





The MODINE 75-25 principle

THE MODINE Copper Cast Radiator, we maintain, makes it possible for you to obtain a degree of heating efficiency of the highest standard. It offers advantages of comfort and economy, through the Modine 75-25 principle of heating, that warrants serious consideration from every person contemplating the erection of a new home.

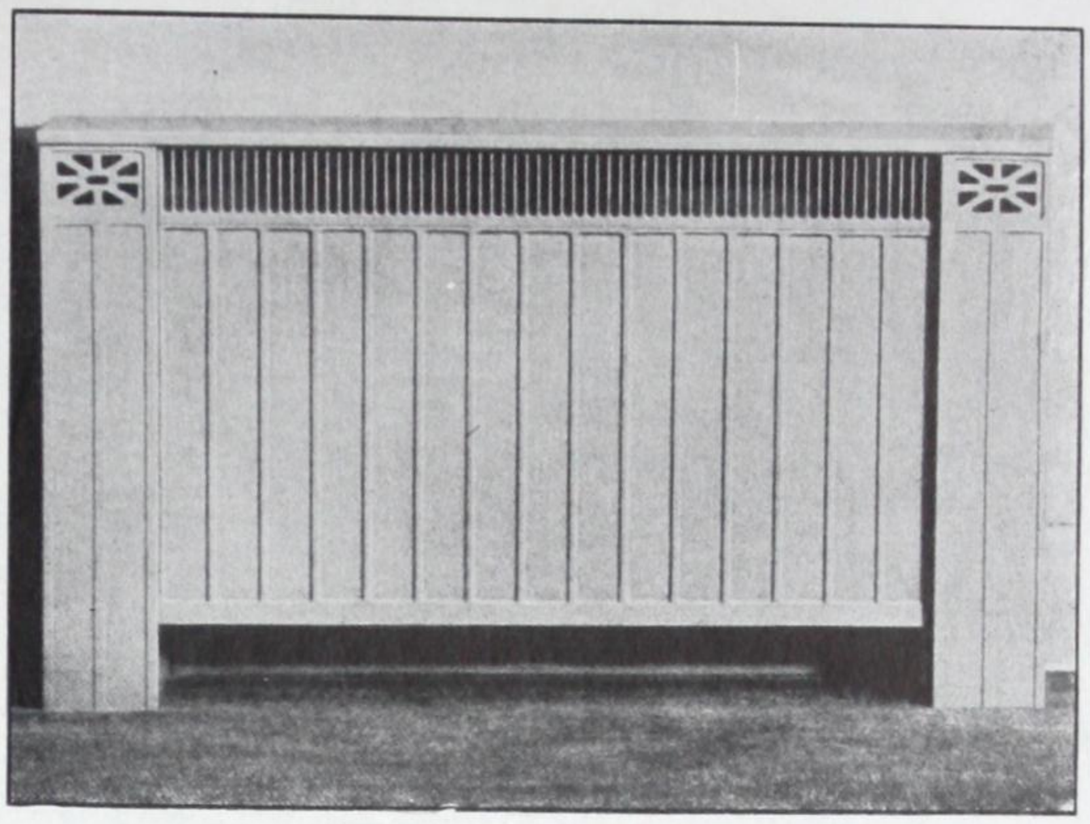
The diagram above illustrates the principle of Copper-Cast Radiators. Steam or hot water flows into the cast iron front and then into the copper convection heater directly behind it.

Seventy-five per cent of the radiator's total capacity is convected heat—the result of cooler air being drawn from the floor, warmed by the copper unit and delivered at increased velocity outward into the "living zone" of the room through the upper grille. Twenty-five per cent of the radiator's capacity is radiated heat—emanating directly from the cast iron front to warm the floors and objects in the room by radiant heat.

This balanced combination assures constant circulation of ample, healthful heat throughout all parts of the room.

MODINE
copper-cast radiators

GENERAL FEATURES



MODINE Copper-Cast Radiators are simple and dignified in design. As they may be either fully or partially recessed in the wall, they will fit into any type of construction, and can be harmonized with any decorative scheme. They reduce wall smudging and discoloration, which is such a common objection to old types of radiators.

Modine Copper-Cast Radiators heat faster than cast iron, because of the copper convection unit and cool much slower than unassisted convection heaters, maintaining, because of these characteristics, a more even temperature than either. Although they occupy less space, they possess far greater heating capacity, per pound of weight, than ordinary cast iron radiators.

They reduce costs incidental to installation. They are quickly placed into operation by any heating contractor.

Modine Copper-Cast Radiators can make your new dwelling cheerier, cozier and more liveable during the cold months of Winter. They can make it warmer throughout, with an even temperature for every room.

Give special attention to the beauty, comfort and economy of Modine Copper-Cast Radiators before selecting any radiation equipment. Consider the value of *being modern* in terms of its effect on the resale value of your home.

Ask your architect or heating contractor to put Modine Copper-Cast Radiators in your new residence. They will reduce heating costs for you, and will provide Winter living-comfort such as you have never before enjoyed.



MODINE COPPER-CAST RADIATION never creates interior decoration problems but adds to smart modern appearance

NEW MODINE HUMIDITIONER

FOR THE MODERN HOME WHERE COMFORT, HEALTH AND ECONOMY IN HEATING ARE DESIRED

THE MODINE Humiditioner is home air conditioning simplified—air conditioning boiled down to a common-sense proposition. It brings you comfort, health and pleasure at a low first cost (the Modine Humiditioner can be completely installed for less than $200) and at a low operating cost. Not only does it perform the important functions of air conditioning in a manner that is at once both efficient and satisfactory, but also you do not need to give up the outstanding advantages of a steam or hot water heating system to obtain air conditioning if you install a Modine Humiditioner.

Now, you may ask, how can the Humiditioner give true air conditioning without elaborate, costly machinery and devices that involve the whole heating system? That is a fair question to ask, for it is true that some air conditioning systems are complicated and expensive, but it is a simple one to explain.

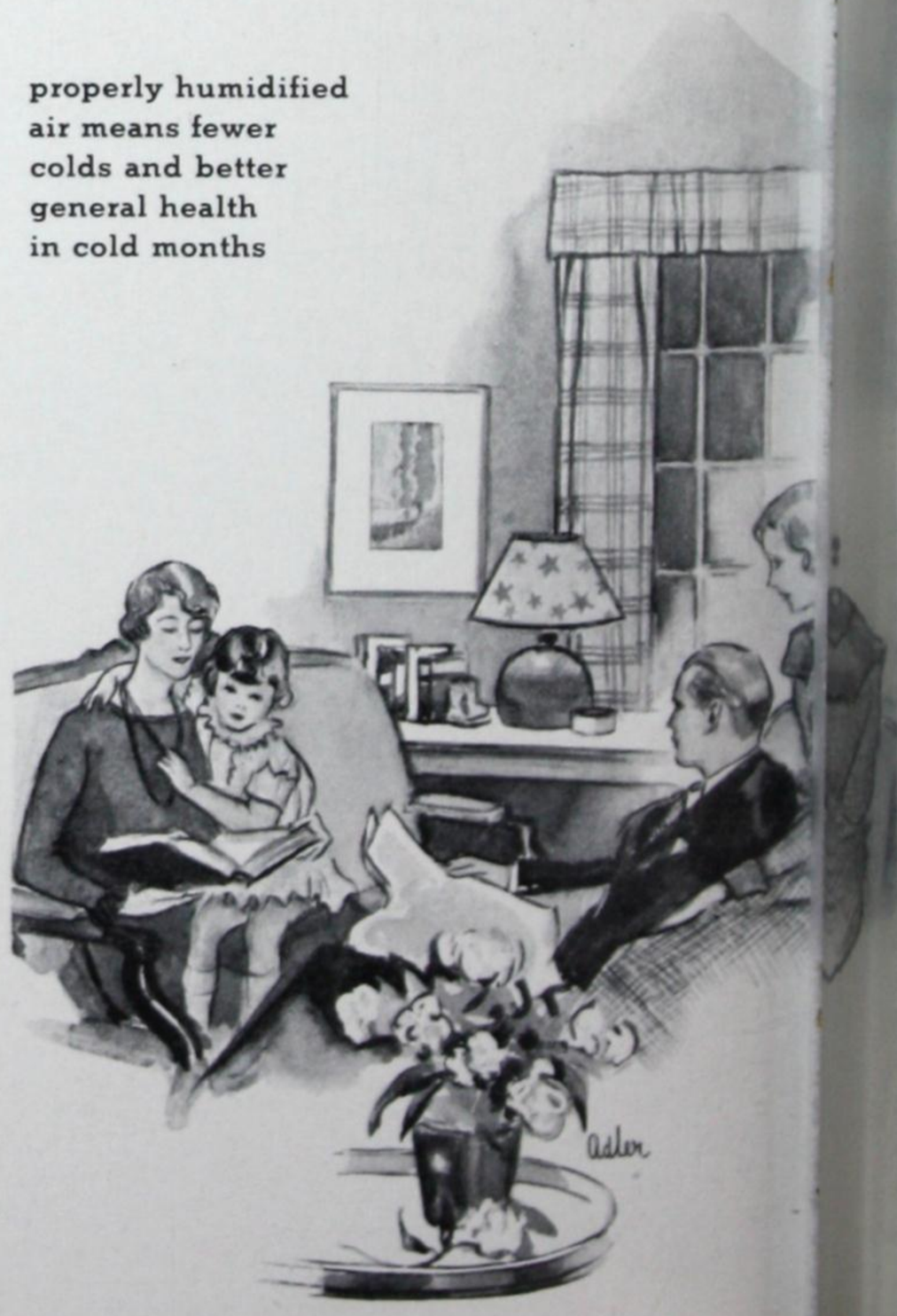
In the first place, properly controlled moistening of heated winter air is the greatest contribution which air conditioning can give the American home. Enough fresh air comes into any house, through cracks in the windows and doors, through doors when they are opened, to give a complete change of the air content every two hours. But in winter-time this fresh air is very dry—it needs to be moistened, or humidified, for health and comfort.

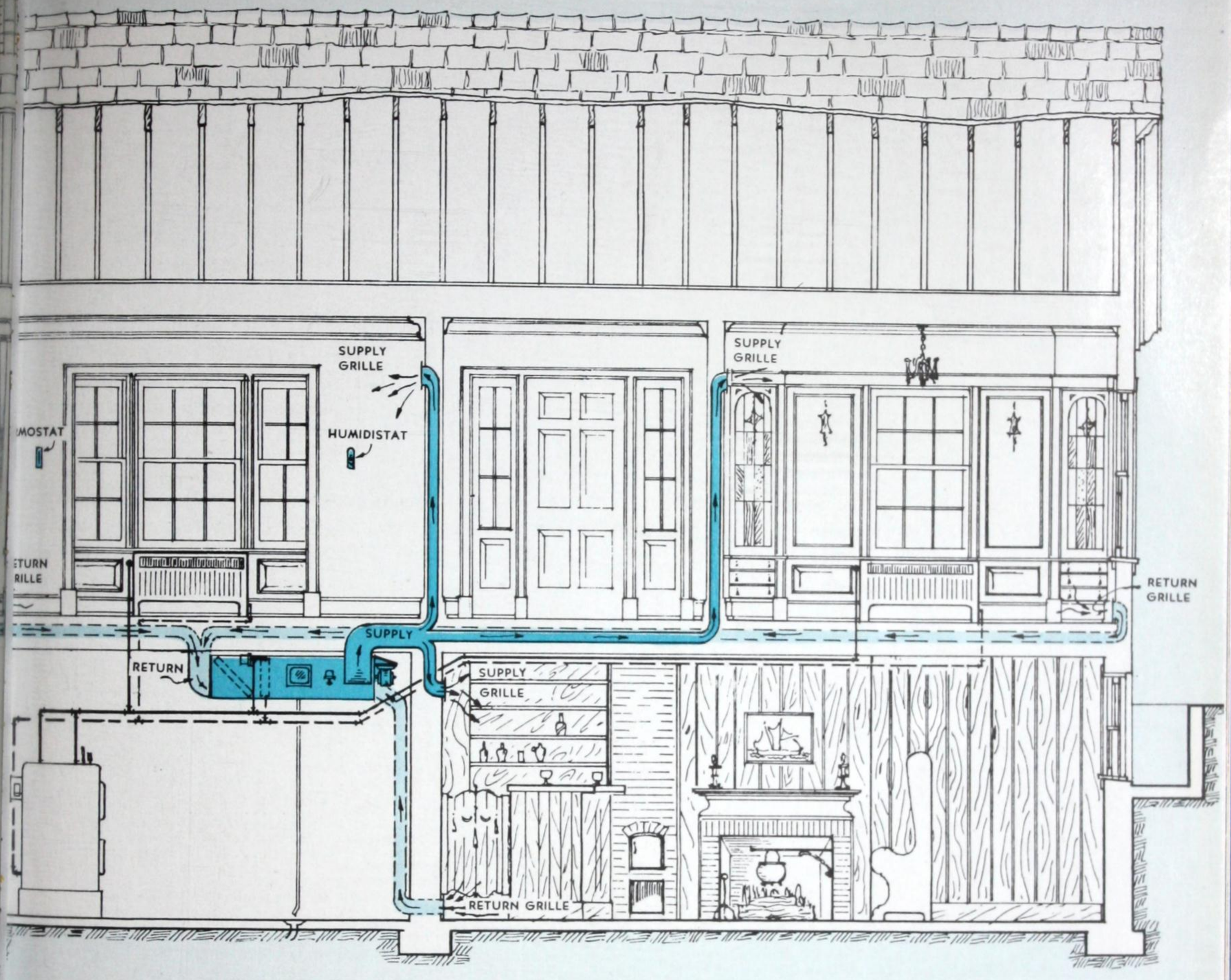
Your doctor will tell you that if the air you breathe has the proper amount of moisture in it, you'll have fewer colds and enjoy better health. He'll also tell you that you don't need as much heat to be comfortable, for properly humidified air feels warmer than dry air at the same temperature because it slows down evaporation of moisture from your body—an action which, in a very dry atmosphere, has a cooling and chilling effect. Thus, proper humidity is desirable from two important standpoints: it brings you better health and saves you money on your fuel bill by allowing you to keep your home comfortable at a lower temperature.

Now—it's a scientific fact that not every room need be artificially humidified to gain a healthful atmosphere throughout the home. Humidity or moisture in the air disseminates like odor. If the beans are burning in the kitchen and you are at the other end of the house, you know that something is burning long before smoke from the kitchen reaches you; odor, in other words, does not depend on air movement for its transmission. So with humidity. If the living room and dining room are humidified, proper moisture will soon find its way to all parts of the house. The Humiditioner gives proper humidity to the air in your home in just this simple way.

It has an auxiliary function of air cleaning and circulating. It will stir up stale corners in the living quarters of your home—keep you feeling fresh in the early evening hours. It will take lint, germ laden dust out of the air of your living quarters instead of letting these get in your nose and throat, or come to rest on curtains and furniture. Furthermore the Humiditioner heats in winter and cools in summer. If this feature is applied, the Humiditioner ca

properly humidified air means fewer colds and better general health in cold months





Humiditioner draws air the living room—then heats, washes and hu- s the air, returns it re- ioned by forced draft.

The Humiditioner is entirely automatic. Thermostatic and humidistatic electrical controls operate the unit without thought or care from you.

THE Humiditioner is small and compact—it is installed suspended from the basement ceiling where it takes up no usable space.

be used to create a cool "oasis" in living room or dining room—with cross connection to bedroom, if desired. Where city water or private deep well water is sufficiently low in temperature, it may be used as the cooling medium—if not, ice or mechanical refrigeration can be employed.

The Humiditioner gets results in air conditioning at low cost—it humidifies, it cleans, it circulates, it heats and it can be made to cool—and it is electrically controlled to perform its functions without thought or care on your part. It gives you the fundamentals of air treatment without leading you away from the lifetime sturdiness of steam or hot water heat and without committing you to a high operating expense despite its fine contribution to your comfort, health and pleasure. Last but not least, the Modine Humiditioner is easy to install.

Your heating contractor can take care of the whole installation in a new home or in an old house. The Humiditioner is ordinarily installed in the basement suspended from the ceiling where it takes up no floor space. Air ducts carry the air both ways between this compact, efficient unit and the rooms which it is serving. Water is connected to the unit from the adjacent supply line running to the heating boiler. Electrical connection between the motor and the thermostat which ties the Humiditioner in with the heating control, and to the humidistat which ties in with humidity control is a very simple operation. In short, the Humiditioner is easy to install—another contribution The Modine Company has brought home-builders, another example of how scientific engineering has helped you save money in your quest of a comfortable, livable home.

MODINE MANUFACTURING COMPANY

RACINE
WISCONSIN

GUARANTEE

We warrant all Modine heating equipment to be free from defects in material and workmanship under normal use and service. Our obligation is limited to making good at our factory any parts which shall within one year from shipment be returned to our factory with transportation charges prepaid and which our examination shall disclose to have been defective.

Leading architects and heating contractors are familiar with the advantages of Modine Copper Radiation. Express your preference for Modine and they will give you further co-operation in providing your home with Modine Copper Radiation of the proper capacity. Modine Sales Offices conveniently located in all parts of the United States. They are ready to give you information and service.

SALES OFFICES

Amarillo, Texas	Allan Engineering Co., Inc.	113 East 13th Street	
Alabama	R. K. Rouse	122 W. Central Ave., Valdosta, Ga.	120
Atlanta, Georgia	J. W. Hinchey	152 Nassau St., N. W.	Walnut 0429
Atlantic City, New Jersey	Sidney B. Strouse	500-529 Guarantee Trust Bldg.	Atl. City 53900
Baltimore, Maryland	Wm. I. Collier & Co.	522 Park Ave.	Vernon 5236
Birmingham, Alabama	Haydn Myer	2224 Comer Bldg.	
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Caldwell, Ohio	I. E. Danford	827 West St.	67-J
Charlotte, North Carolina	Earl G. Embree	609 Builders Bldg.	2-3550
Chicago, Illinois	D. S. Paden	720 North Wabash	Superior 0510
Cincinnati, Ohio	Harry A. Pillen	622 Bdwy., Rm. 209 Bldg. Ind. Bldg.	Cherry 2440
Cleveland, Ohio	M. I. Kishler	901 Smythe Bldg., 1001 Huron Rd.	Cherry 1970
Columbus, Ohio	A. F. McGovern	83 S. High St., Rm. 319	Main 1744
Dallas, Texas	Allan Eng. Co. Inc. of Dallas	2708 Live Oak St.	
Dayton, Ohio	The Graves & Marshall Co.	716-726 E. Monument Ave.	Fulton 8931
Denver, Colorado	Harry H. Herman	1226-1228 California St.	Tabor 4505
Detroit, Michigan	Geo. W. Akers Co.	2847 Grand River Ave.	Randolph 3326
Elizabeth, New Jersey	Htg. Equip. Sales Co.	251 N. Broad St.	Elizabeth 2-1425
El Paso, Texas	Geo. W. Herlin	401 N. Santa Fe St., P. O. Box 512	Main 8
Florida	R. K. Rouse	122 W. Central Ave., Valdosta, Ga.	120
Fond du Lac, Wisconsin	A. N. Goff	94 Eighth St.	Fond du Lac 6973
Fort Worth, Texas	Allan Eng. Co. Inc. of Fort Worth	1103 First National Bank Bldg.	25113
Grand Rapids, Michigan	Jay K. Richmond	847 Cherry St., S. E.	84007
Harlingen, Texas	Allan Engineering Co., Inc.	P. O. Box 443	
Hartford, Connecticut	J. M. Augur	P. O. Box 744	4-3245
Houston, Texas	Allan Eng. Co. Inc. of Houston	3940 Main, Room 103	Hadley 3403
Indianapolis, Indiana	C. A. Will	5402 Broadway	Humboldt 3141
Jacksonville, Florida	H. L. McMurray	418 No. Main St.	
Kansas City, Kansas	The Darby Corporation	923 N. Third St.	Drexel 1441
Kingston, Pennsylvania	F. A. Dockeray	Box 135	7-2713
Knoxville, Tennessee	Plumbing & Heating Sales Co.	408 W. Clinch Ave., P. O. Box 1363	3-8212
Little Rock, Arkansas	G. C. Evans Sales Co.	1215 Louisiana St.	4-2424
Los Angeles, California	R. M. Gunzel & Co.	320 Crocker St.	Van Dike 6403
Louisville, Kentucky	Lewis & Hancock	327 Breslin Bldg.	Jackson 8952
Madison, Wis.	C. H. Power	1706 Yahara Place	Badger 4317
Memphis, Tennessee	Claude Fuson	1678 Overton Park Ave.	7-5017
Milwaukee, Wisconsin	W. F. Boden	2540 West Wells St.	West 4556
Minneapolis, Minnesota	R. B. Mosher	3236 Irving Ave., S.	Locust 6539
New Orleans, Louisiana	R. K. Rothrock	5316 Dryades	Upt. 3466
New York, New York	R. D. Tyler	1734 Arch. Bldg., 101 Park Ave.	Ashland 4-6832
Oklahoma City, Oklahoma	Frank Loeffler Supply Co.	710 N. Hudson St.	3-2166 & LD-270
Omaha, Nebraska	Air Conditioning Utilities, Inc.	1810 Harney St.	Atl. 4730
Peoria, Illinois	M. E. Spangeberg	Federal Warehouse	4-2141
Philadelphia, Pennsylvania	Wm. Kidd	106 Wilford Bldg., 33rd & Arch Sts.	Evergreen 1708
Pittsburgh, Pennsylvania	P. F. Moser	207 Fulton Bldg.	Grant 3120
Portland, Oregon	J. A. Schneider	1132 N. W. Glisan St.	Broadway 2643
Racine, Wisconsin	H. P. Connolly	c/o Modine Mfg. Co.	Jackson 500
Raleigh, North Carolina	B. C. Allen	102 W. Hargett St.	2017
Richmond, Virginia	Shultz & James Inc.	7 N. Sixth St.	23965
Rockford, Illinois	R. E. Burden	232 Grand Ave., Loves Park	Parkside 49, Ring 2
St. Louis, Missouri	R. J. Smith	7707 Lile Ave.	Sterling 1313
Salt Lake City, Utah	A. A. Maycock	Post Office Box 3	Wasatch 4871
San Antonio, Texas	Allan Eng. Co. Inc. of San Antonio	435 Main Ave.	
San Francisco, California	P. J. O'Meara	50 Hawthorne St.	Sutter 6743
Savannah, Georgia	Bergen & Peck	Mendel Bldg.	5528
Scranton, Pennsylvania	L. A. Howley	219 Miller Bldg.	4-5377
Seattle, Washington	W. W. Cox	326 Columbia St., Campbell Bldg.	Main 8661
Texarkana, Ark.	Allan Eng. Co., Inc.	P. O. Box 604	2358-J
Toledo, Ohio	Ralph Shawaker	132 Summit St.	Adams 7825
Valdosta, Ga.	R. K. Rouse	122 W. Central Ave.	120
Warren, Ohio	P. F. Moser	171 Homewood Ave., Box 635	2992 W
Wichita Falls, Texas	Allan Eng. Co. Inc. of Wichita Falls	1824 Collins, P. O. Box 2253	4223 or 6610
Wichita, Kansas	J. M. O'Connor	434 N. Rock Island Ave.	4-2879
Wilmington, Delaware	R. S. Parvis	602 McLane St.	20456
York, Pennsylvania	Paul E. Sowers Co.	139 W. King St.	2597
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Tokyo, Japan	Asano Bussan Co., Ltd.	Kaijo Bldg.	

WE WOULD APPRECIATE AN OPPORTUNITY TO SHOW YOU MORE FULLY HOW **MODINE COPPER RADIATION** AND THE NEW **MODINE HUMIDITIONER** CAN ADD TO THE BEAUTY, COMFORT AND ECONOMY OF THE HOUSE YOU ARE PLANNING

NAME AND ADDRESS AND MAIL

JUST SIGN YOUR...

MODINE MANUFACTURING COMPANY

RACINE, WISCONSIN

Gentlemen:

Please have your representative call to give me information concerning Modine Products.

NAME.....

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FIRST CLASS
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Racine, Wisconsin

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PRINTE

CLOVERDALE
BROADLOOMS



25 Beautiful Shades

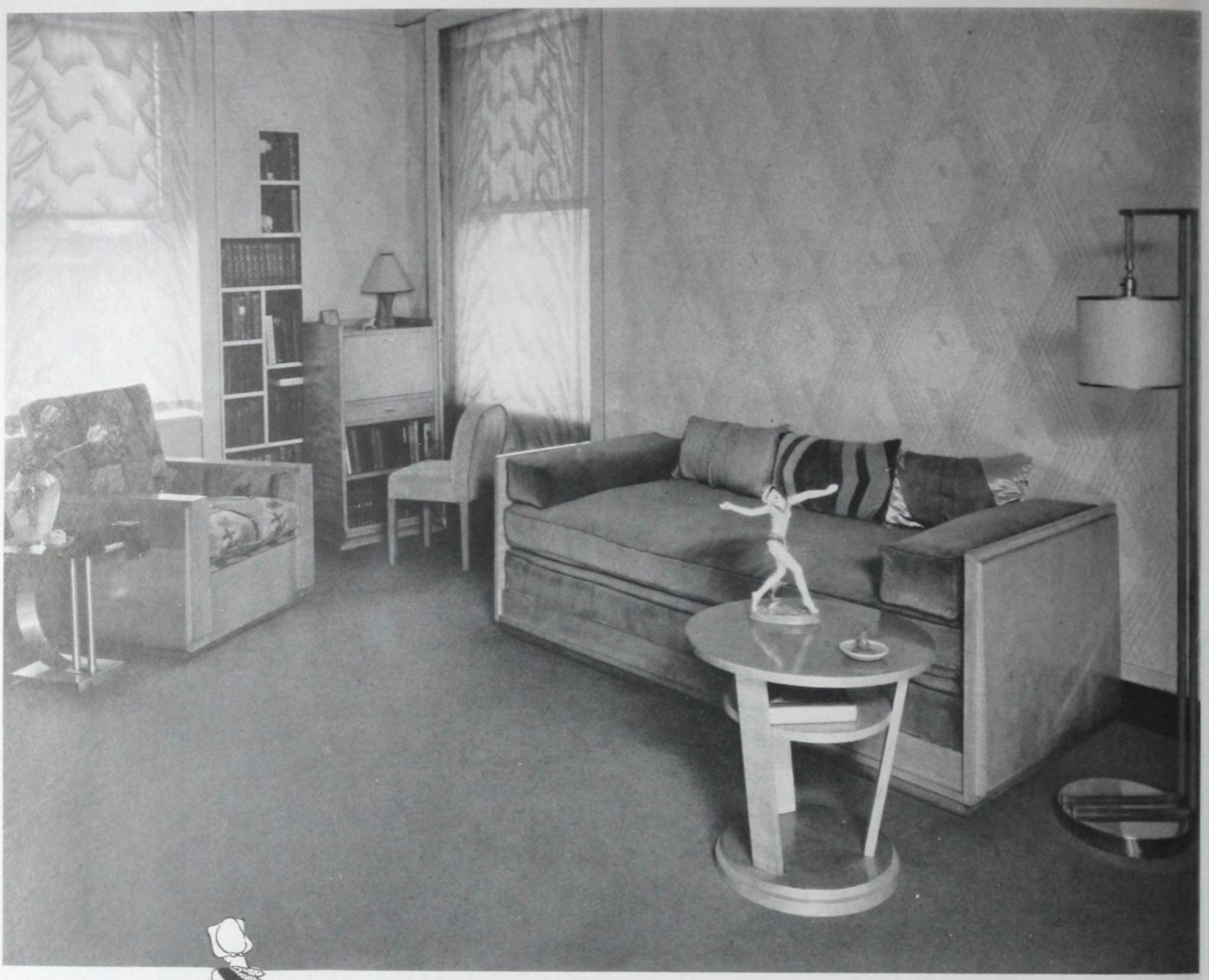
TO COVER YOUR FLOORS WITH ECONOMY

THE PHILADELPHIA CARPET COMPANY

ALLEGHENY AVENUE AND "C" STREET, PHILADELPHIA, PENNA.

Makers of Quality Carpets Since 1846

CLOVERDALE BROADLOOMS



HORTENSE REIT . DECORATOR . NEW YORK



"SO YOU SEE MY CLOVERDALE BROADLOOM IS ONE OF MY MOST CHERISHED POSSESSIONS"

That might easily be your own expression, for there is a beautiful simplicity to floors covered from wall to wall with Broadloom. The trend in floor covering today is definitely towards colorful, seamless Broadloom, and rightly so, for nothing quite approaches it as a decorative background, nor for its peculiar facility for becoming better liked year after year. You'll like the quiet, restful atmosphere created by Cloverdale Broadloom . . . a floor covering that makes an attractive and helpful foundation for your decorative plans.

THE PHILADELPHIA CARPET COMPANY

ALLEGHENY AVENUE AND "C" STREET • PHILADELPHIA • PENNA.

Makers of Quality Carpets Since 1846

WHY SO MANY OF THE FINE INTERIORS YOU SEE PICTURED HAVE FLOORS COVERED WITH BROADLOOM

OF COURSE, YOU'VE NOTICED how astonishingly fast broadloom rugs and carpets have won a first place position among floor coverings. You probably have your heart set on broadloom yourself, but we can talk a little about *why*. Well, in the first place, it's because of their plain colors. You can do things with plain colored rugs that figured rugs make impossible. You gain color individuality without clash. You can strike a bright or minor color-note uniformly throughout each room, you can set your decorative plans off to fuller advantage, and by carpeting from wall to wall you can enjoy untold coziness and comfort.

Rooms are, or should be, as individual as people. And when you clothe the floor of a room, how much better to clothe it with a rug that really *fits* . . . as broadloom does. These features actually "make" your home. The floors after all are the foundation of the entire decorative scheme and the popularity of broadloom floor covering is here because it makes a *better* foundation, a more elastic and adaptable foundation. With broadloom on the floors, you'll find it easier to develop points of harmony or contrast in colors . . . with drapes, wall finish, furniture and ornamental effects. Then, too, you can have a size that fits the room and fits your plans. You don't have the disadvantage of building your room around a fixed sized rug.

THE SIMPLE DECORATIVE BEAUTY OF IT

The expression of good taste and simplicity is the goal of decorators today. Because they achieve these results more conveniently and less expensively with broadloom, you see a growing preference for it. The beauty of broadloom is the beauty of solidly colored floors . . . the kind of beauty that creates favorable first impressions . . . the kind of beauty that can be lived with year after year without becoming tiresome. Your objectives in color harmony can better be reached and more fully enjoyed if you begin with broadloom on the floors.

THE ECONOMY OF IT

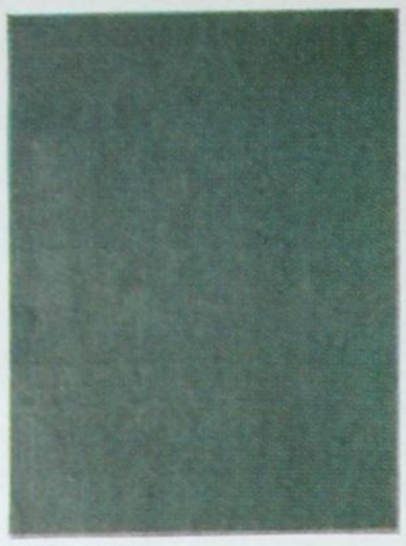
But granting the more pleasing results obtainable from rugs and carpets of broadloom, there is another important reason for choosing it. Economy! Cloverdale Broadloom is available at a price that leaves no doubt as to its desirability for your floors. As you turn these pages, you will see the colors available, you will see something of its construction. We hope you will go to your dealer and see Cloverdale itself. For coloring, quality and durability considered, we believe you'll find Cloverdale about the most economical fabric you can find. We welcome comparisons with any floor covering of the same price range.

Cloverdale provides a rug and carpet material that meets the prime requisites of a dependable floor covering . . . decorative coloring in wide range, long wearing construction and economy in first cost and throughout the years.

***So Your Rug Choice Should Be* CLOVERDALE**



No. 501 – Heather



No. 219 – Jade Green



No. 202 – Burgundy



No. 200 – Rose Taupe



No. 208 – Peach T



No. 218 – Navy Blue



No. 205 – Henna



No. 217 – Light Rust



No. 253 – Turquoise



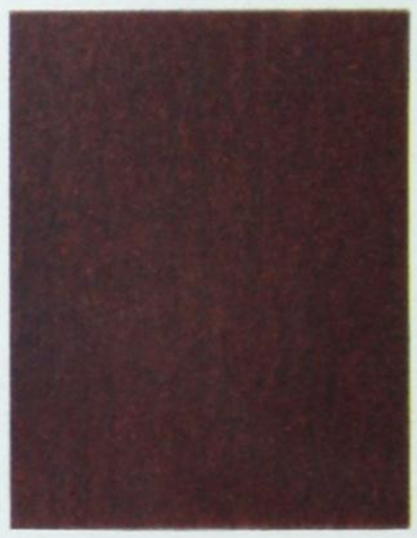
No. 211 – Raisin



No. 236 – Reseda Green



No. 237 – Mauve Gray



No. 235 – Seal Brown



No. 220 – Medium Blue



No. 252 – Beige Ta



No. 251 – Dark Camel



No. 231 – Sage Green



No. 221 – Dark Rose



No. 213 – Cedar Rust



No. 207 – Dark Gr



No. 224 – Gold Tan



No. 233 – Claret



No. 206 – Gray Taupe



No. 239 – Blue Green



No. 225 – Bright R

Twenty-five Beautiful Colorings • Each in Five Widths.

The colors above approximate as closely as possible the actual rug colors. The true richness of these Cloverdale colors, however, will be better appreciated by examination of the rugs themselves.

THE PHILADELPHIA CARPET COMPANY

Whether You Prefer RUGS OR CARPETING YOU WILL LIKE THE COLORFUL BEAUTY OF *CLOVERDALE BROADLOOMS*



. . A MARK OF PRIDE TO US AND A SIGN OF SATISFACTION TO YOU

The Cloverdale trade-mark is actually a guarantee . . . our symbol which is used to mark floor coverings that have passed *our own* rigid tests and proved themselves capable of withstanding all the wear *you* can give them, and more. A simple guide in the selection of plain colored rugs or carpet is to just look for the Cloverdale mark on the back of the goods shown to you. Then you know you have the best . . . in value, in wear, in satisfaction.

THERE'S A WEALTH OF SATISFACTION IN CLOVERDALE BROADLOOMS

We Build it in for You

The things that make for satisfaction in rugs and carpet are simply these — a soft, heavy pile, tasteful color tones and a surface that will last undamaged by years of wear. Those are the features we build into Cloverdale Broadlooms. They have a close weave forming compactness and an extra heavy backing foundation for the fine spun, three-ply virgin wool pile or wearing surface, which provides a resiliency found only in high cost chenille fabrics. Although Cloverdale Broadlooms are comparatively low in price, no shoddy or re-worked wools are ever used in their manufacture.

THICKNESS OF THE PILE

It would be possible to use cheaper grades of coarser spun yarns and make a heavier carpet, but quality is not to be had that way. Years of experimentation prove that the finer grades can only be made from long staple quality wools. Examine samples of Cloverdale Broadloom and you can see how thick is its pile . . . a factor that means long wear.

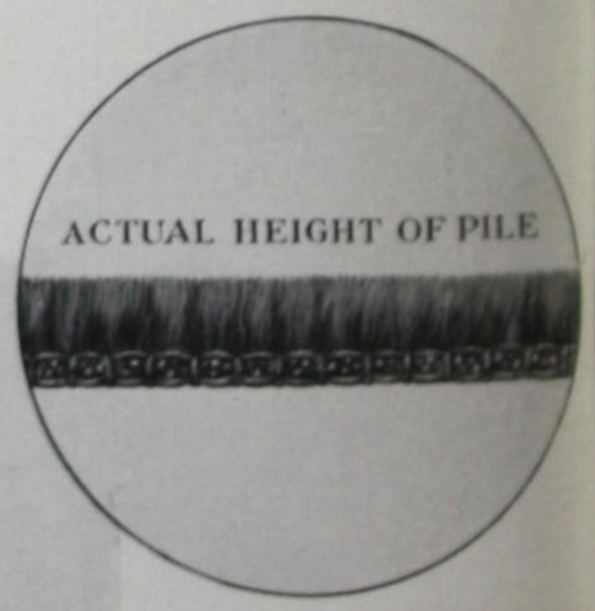
DENSITY OF COLORS

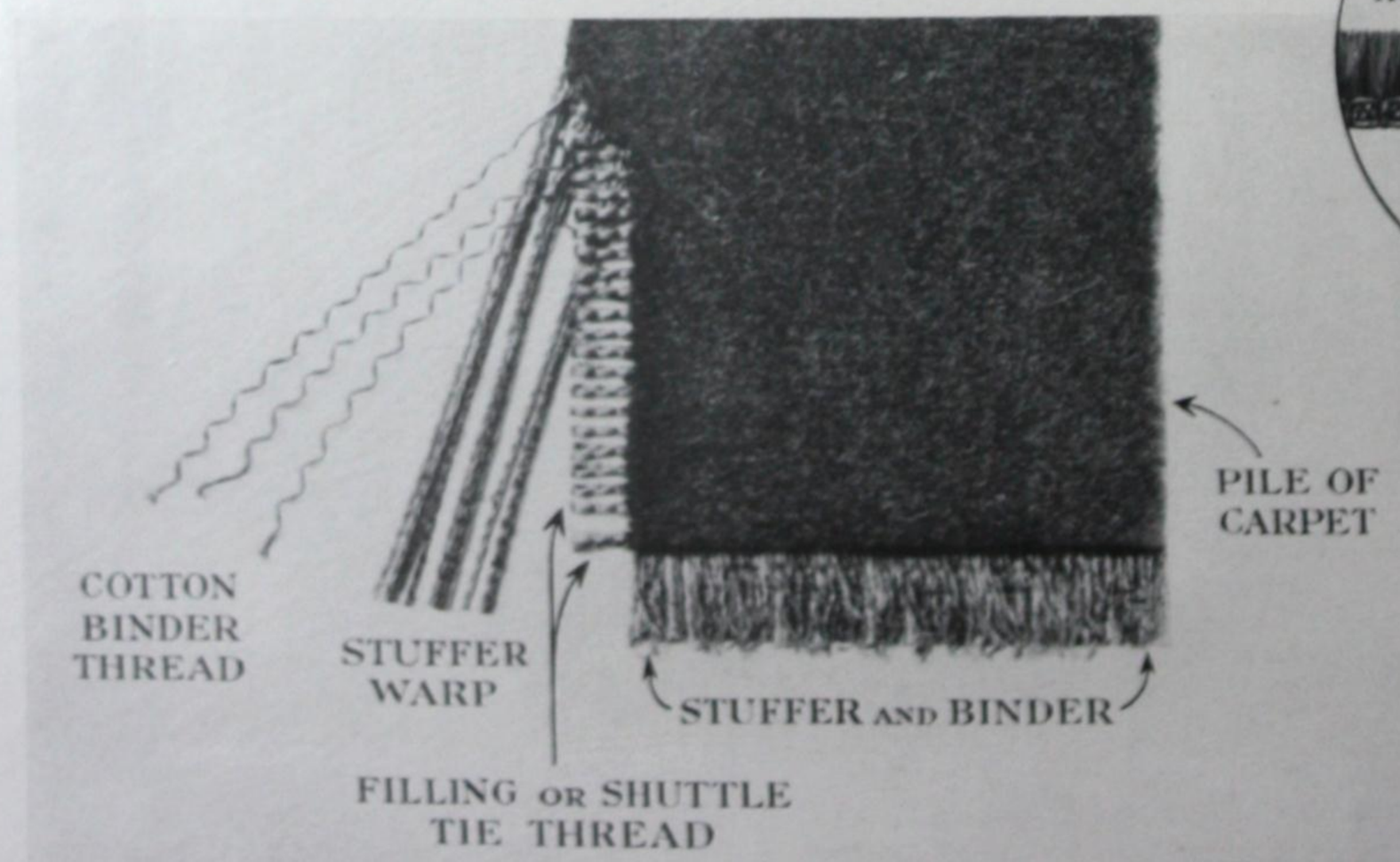
Cloverdale Broadloom colors are made from Neolin Dyes. Our company was one of the first to adopt this "hidden quality" addition in the production of its plain carpets. These Neolin Dyes not only withstand strong light conditions, but also they resist acids, chemicals and other color destroyers to a remarkable degree.

YEARS OF WEAR

Some remarkable tests of the wearing qualities of this fabric have been made. For instance, at the Chicago Century of Progress, the show room of a prominent manufacturer was covered. In four months' time over a million and a half persons, a million and a half pairs of feet, represented the traffic . . . and still the Cloverdale carpet showed no appreciable wear from such use. It is really a quality fabric sold at a very moderate price.

Quality is paramount in rugs and carpeting. You don't buy them as you buy clothing. Clothing you discard with the fashions. Rugs and carpeting you expect to keep a lifetime. And it is for just such service that Cloverdale is built.





Here is a "breakdown" of Cloverdale Broadloom showing you the weave. The deep, hard wearing pile is woven strongly to a heavy foundation . . . a quality job throughout.

HOW TO ORDER YOUR CLOVERDALE BROADLOOMS

FOLD ALONG THIS LINE · SEAL AND MAIL · SEE REVERSE SIDE

Use This Convenient Form
FOR INFORMATION

•

THE PHILADELPHIA CARPET COMPANY
PHILADELPHIA · PENNSYLVANIA

Please tell me from whom I may secure information with reference to your CLOVERDALE BROADLOOM Rugs and Carpeting.

Color numbers of interest to me are:

_____ _____ _____ _____ _____ _____

I have the following size rooms to cover:

FOLD HERE _____ _____ _____ FOLD HERE

_____ _____ _____

(In the case of irregularly shaped rooms, with recesses or projections, it will help us to give more complete information if you will send us a rough floor plan)

☐ You may have a local representative call.

☐ Please send me samples.

☐ Quote price for rug size _____ x _____ feet.

REMARKS:

NAME _____

ADDRESS _____

CITY _____ STATE _____

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Cloverdale "Rainbow Back" label. Order Pattern 300 and the desired color number as shown on the label and you are assured of securing the Cloverdale Quality.

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PHILADELPHIA, PA.

For reputable firms who feature quality merchandise . . . at a fair price.

THERE'S A WEALTH OF SATISFACTION IN CLOVERDALE BROADLOOMS

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First Class
Permit No. 3826
(Sec. 510 P. L. & R.)
Philadelphia, Pa.

BUSINESS REPLY ENVELOPE
NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

4C.-POSTAGE WILL BE PAID BY—

THE PHILADELPHIA CARPET COMPANY,

Allegheny Avenue and "C" Street,

PHILADELPHIA, PA.

HOW TO ORDER YOUR CLOVERDALE BROADLOOMS

•

CLOVERDALE BROADLOOMS are available in the great majority of reputable department, house furnishing and floor covering stores. These local dealers are serviced from numerous distributing points, so that your needs can be promptly met wherever you reside. Simply consult your local dealer or write us direct on the enclosed inquiry form for the name of the nearest source of supply.

SIZES AND INFORMATION

When selecting Cloverdale Broadloom Rugs or Carpet, you may purchase the exact sizes for your rooms. You are not limited to standard rug sizes, as in the case of most floor coverings, excepting the very expensive "handmade" types. Widths are standardized, of course . . . 9, 12 or 15 feet . . . but you may select any length rug you need in those widths. The color you select from the wide range available is virtually "made to order" to suit your requirements.

FOR RUGS

Measure the size of your room, leave the desired border, then order the size which best fits the floor area to be covered. For instance, if your living room is 14′ 6″ by 21′, a rug 12 feet wide would leave 15 inches of border on each side of the room. Deducting the same amount (total 30″) from the length of the room, you would need a rug length of 18′ 6″. Your rug order therefore would be 12′ by 18′ 6″.

FOR CARPETING

If your room is not more than 15 ft. in width, it may be covered with seamless carpeting — or — you may use a number of widths of 27″ or 36″ sewed together to cover any space. Your dealer will take measurements in your home so that a correctly fitting carpet is assured.

. . . AND REMEMBER

The floor is a focal point and the base from which many decorators begin to plan the well-balanced room. They begin there . . . as you should. Don't leave the floor covering to the last. Give it the attention it deserves. Choose your colors carefully. Measure correctly. And cover the floors first! Your entire home will benefit.

In these days of high style at low cost (as Cloverdale gives it) your floor covering can be in the long run the least expensive item in the room. See the Cloverdale dealer just as soon as you can.

Look for this Label

Ask your dealer to show you samples containing the Cloverdale "Rainbow Back" label. Order Pattern 300 and the desired color number as shown on the label and you are assured of securing the Cloverdale Quality.

RAINBOW BACK

CLOVERDALE

(ALL WOOL FACE)

SEAMLESS CARPETING

Pattern 300 Color

WIDTHS
27" 36" Nine, Twelve and Fifteen Feet

Produced with an exceptionally heavy multicolored improved back giving the pile or wearing surface increased resiliency and therefore greater wear than fabrics in the same price range which do not contain this feature.

MANUFACTURED BY
The Philadelphia Carpet Company
"Makers of Quality Carpets Since 1846"
ALLEGHENY AVENUE & "C" STREET
PHILADELPHIA, PA.

For reputable firms who feature quality merchandise . . . at a fair price.

CLOVERDALE BROADLOOMS

THE PHILADELPHIA CARPET COMPANY

ALLEGHENY AVENUE AND "C" STREET, PHILADELPHIA, PENNA.

Makers of Quality Carpets Since 1846

For almost 90 years the Philadelphia Carpet Company has been known as a maker of quality carpets. Cloverdale Broadloom brings you the fruits of this long experience . . . the dependable product of a dependable manufacturer. Our products have won steadily increasing preference and today reputable dealers in all principal cities and towns carry complete color line samples of Cloverdale Broadloom for your inspection. These dealers are prepared to assist you in making measurements, advise with you as to color selection, sew and make up Cloverdale Broadlooms for your particular requirements and to install wall to wall carpeting. They perform a service which is indispensable to the user and the manufacturer alike, a really helpful service that you will like.

Architects and decorators, too, are of invaluable help in deciding upon floor treatment, so if you are employing such services, be sure to get the full benefit of their counsel.



The Cloverdale dealer usually is the leading department or furnishing store in a community — an organization with which you probably have regular contact. Consult your local dealer about your floor covering problem, or use the convenient inquiry form in this booklet. On receipt of same we will send you complete information.

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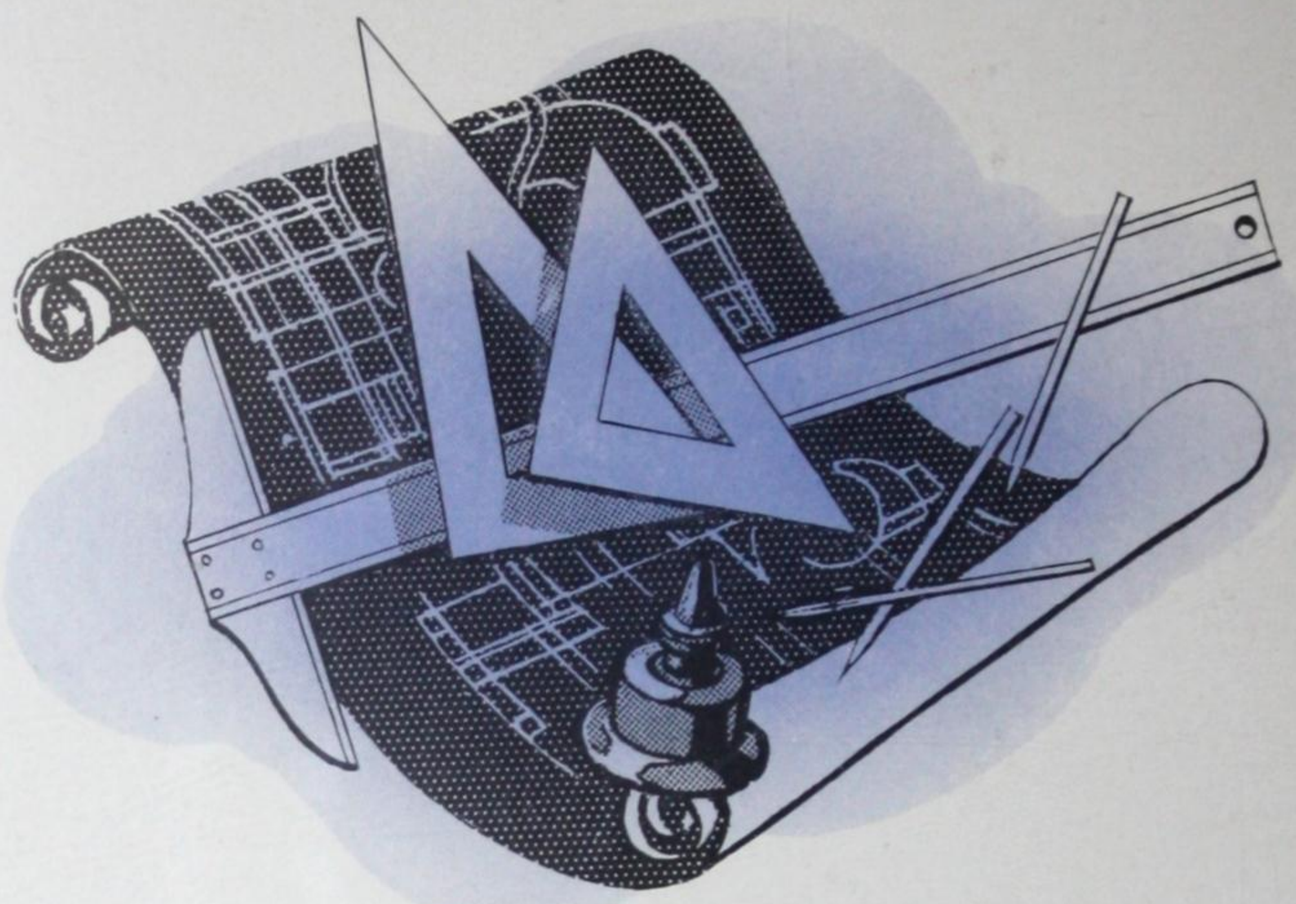
CLOVERDALE BROADLOOM is entitled to the use of this label signifying that the construction of this product is approved by the Institute of Carpet Manufacturers of America, Inc.



PRACTICAL SUGGESTIONS FOR THE INTERESTING USE OF GLASS AND PAINT IN YOUR HOME.

PITTSBURGH
PLATE GLASS COMPANY

PITTSBURGH
PLATE GLASS COMPANY



INTRODUCTION

IN the building of a new home or the remodeling of an old one, ideas play just as important a part as money. A unique window treatment, a smart use of a mirror or two, a touch of color in just the right spot . . . these are the little things that lift a room out of the ordinary into that exalted position where almost every one who enters it exclaims "What a delightful room this is!"

So we repeat that ideas are almost more important than anything else in planning a home. And it is with that thought in mind that we have prepared this book. We hope it will suggest ideas to you that will make your new home more attractive . . . more livable . . . and a true home in every sense of the word.

PITTSBURGH
PLATE GLASS COMPANY

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PAINT... Its Purposes and Possibilities . . . . . page 17



THE WINDOWS OF *your new home are extremely important. Properly designed and properly glazed, they add to the charm of your home's exterior with bright, reflective surfaces. And they do more for the lovely decoration of your rooms than oil paintings or expensive water colors, because they bring the beauty of the outdoors indoors.*

PITTSBURGH
PLATE GLASS COMPANY

WINDOWS make a room



WE have all seen and known and lived with windows for so many years that we may have come to take them for granted. But in the new home you build, your windows are far too important to be taken for granted. Of course, they must fulfill their regular functions, which are to keep out the weather, let in the light and afford proper ventilation. But how much of beauty and of charm we would miss if we confined the use of windows merely to these elementary services.

The new home . . . the modern home of today . . . is showing a very marked trend toward more windows, larger windows and a much wider use of glass for miscellaneous purposes in the home. Windows have a very decided effect upon not only the beauty of the inside of your house but of the outside as well. If your windows are well designed, well located and properly glazed, they present to the world from the outside sparkling, bright surfaces, greeting the passing world smilingly, reflecting the changing beauties of trees, shrubs, clouds or snow almost like mirrors. And from the inside, the right kind of windows will do more toward lovely decoration of your rooms than oil paintings or expensive water colors . . . because every window frames a scene of Nature's outdoors. So let's plan your new home so that you get the very utmost from your windows in utility and charm.

Probably you can remember many rooms in which you have lived that you hoped, somehow, never to see again. Dark rooms, gloomy rooms, rooms that you couldn't possibly read in comfortably without artificial light, even though the sun was shining brightly outdoors. In your new home you will change all that. And to do so, you will need plenty of windows . . . large windows so located that you will always have plenty of cheerful sunlight in your home. Such windows will do much not only for the beauty of your home but for the comfort and livableness of the rooms themselves. They will render you a priceless benefit in protecting your eyesight and that of your family. It is only quite recently that we have awakened to the great need for better light to insure better sight.

You will want plenty of windows. Insist that you get them . . . because it is important to lure all the sunlight possible into your home. And if you do not retain an architect to do it for you, see to it yourself that your windows are well placed, that their size and shape are in harmony with the outdoor view of your home and the indoor appearance of your rooms. The recent Century of Progress Exposition in Chicago gave many glowing examples of the trend toward more and larger window openings that is sweeping the country.

Decidedly, the windows for your new home merit our careful consideration. And the kind of glass with which your windows are glazed will largely determine their attractiveness.

HOWE & LESCAZE, ARCHITECTS



PITTSBURGH
PLATE GLASS COMPANY

Kind of Glass to Use in Your Windows

OF course, the perfect window is always glazed with Polished Plate Glass. There is nothing else like it. No other glass can so well fulfill all the requirements of the modern window. It is ground and polished by machinery until its surfaces are lustrous, brilliant, flat and reflective. Its clarity is a thing to be wondered at. Looking directly through a Plate Glass window you would scarcely know there was a sheet of glass between you and the outdoors unless you reached out and touched it. It is the aristocrat of all transparent glazing materials.

True, Plate Glass is more expensive than the usual types of window glass. And its heavier thicknesses have often prevented its use in the ordinary types of sash employed in home construction. But the Pittsburgh Plate Glass Company has developed a thin plate glass called Vista Plate. This Polished Plate Glass is ideal for home use. It has every quality of the finest Polished Plate Glass . . . brilliance . . . perfect vision . . . polished surfaces . . . and flawless transparency. It is 1/8-inch thick and fits standard sash with standard sash weights. It is surprising how little more Vista Plate costs than window glass and you can well consider affording this slight extra cost at least in those windows which front upon the street.

If, however, your building budget must be watched closely you will find in Pennvernon Window Glass the next best thing to Polished Plate Glass. The special process used in making this window glass, as well as the purity of the raw materials employed, gives it a remarkably brilliant and reflective finish, and an unusual freedom from distortion. One of the superior features of Pennvernon Window Glass is that both sides of the sheet have the same bright finish, so it can be glazed with either side out. This is not the case with most window glasses. Furthermore, Pennvernon Window Glass is far easier to clean. Its dense, close-knit surfaces do not so readily attract or hold dirt and they clean ever so much more easily than those of ordinary glass.

Pennvernon Window Glass fulfills its function better, we believe, than any other window glass, and if our old friend Mr. Budget closes the door on Polished Plate Glass, then you will find its most eligible substitute in Pennvernon.

The PICTURE WINDOW

OF course, every home should have one if possible. Picture Windows just seem to bring the whole outdoors inside. Placed to command the most attractive view your home makes possible, a picture window brings a freedom of outlook of which you will never tire. "Picture Window" simply means a very large window without cross sash of any kind to obstruct the vision. Sometimes they extend from floor to ceiling. Sometimes they are smaller, but it is amazing what a great difference one of them will make in a room. Picture Windows should always be glazed with Polished Plate Glass . . . usually 3/16 or 1/4-inch thickness . . . because the heavier weights of Plate Glass are demanded to withstand wind pressure, stresses, etc., in such a large light of glass, and also because only Polished Plate Glass can offer the perfect, undistorted vision so essential in a successful picture window.

And perhaps you are planning on a glass-enclosed porch for your home. Lucky you are if such a porch has found its way into your plans. You will find this sun porch or solarium a room which you will use far more than you ever dreamed possible. Here, surrounded on three sides by bright, sun-welcoming glass, you are generously treated to the healthful

A PICTURE WINDOW like this, glazed with Polished Plate Glass for perfect vision, makes your room far more attractive . . . because it literally makes the beauty of the outdoors an integral part of your home.



sunlight which children and adults, too, need. Here will be an ideal playground for children on days too damp or snowy or cold for them to be outdoors. And here in the summer is a cool, comfortable place to relax with all windows open wide, catching every breeze that blows.

For glazing your sun porch you again can choose between the standard thickness of Polished Plate Glass, thinner Vista Plate Glass, or Pennvernon Window Glass. If the sun porch is on the front of the house, where the large glazed surfaces are necessarily conspicuous, then Plate Glass will present by far the most attractive outward appearance as well as inside perfection of vision. But while a bit less brilliant in its surface finish, we must admit that Pennvernon Window Glass presents a most attractive front.

Of course, the placing of your windows you will leave largely to your architect if you have one. If not, the placing of two, three, four or five windows side by side, in order to combine attractive facing of windows with the admission of abundant light, is a good idea. In such groupings, you frequently find that strips of mirror glass in interior divisions between windows provide an added charm that is most effective.

Storm Windows or Double Glazing will be an Economy

THE charm of many windows need not be sacrificed to the demand for winter warmth in localities where zero cold frequently prevails. Storm windows aid in keeping in the warmth that would otherwise escape through the glass in your windows. Indeed you will find that the proper use of storm sash will actually decrease heat losses from 45% to 65% depending upon the outdoor temperature and wind velocity. And that means a very considerable saving in fuel cost. It means a more healthful home, fewer drafts, a more even temperature.

Winter windows or storm sash are attached outside of the ordinary single glazed windows. They then afford a double window . . . the storm sash and the permanent window forming between them a dead air space . . . one of the best non-conductors of heat known. These extra windows are hinged in a manner that permits convenient cleaning, proper ventilation and the evaporation of accumulated frost. Storm sash is available glazed with Polished Plate Glass or with that fine quality Pennvernon Window Glass.



WINTER WINDOWS *affixed over your permanent windows result in more even temperatures, less drafts, fewer winter illnesses and greatly decreased fuel costs in your home during cold weather.*

Of course, the ideal way to control house temperatures and heat loss through windows is double glazing . . . two lights of glass glazed in the same sash with a dead air space between them. Only recently has this method become really practical. The Pittsburgh Plate Glass Company has developed a special Water White Plate Glass which overcomes all the previous difficulties encountered in double glazing, such as loss of clarity due to "bloom." This Water White Plate Glass is a pure white glass with all the visional and quality perfection of regular Polished Plate Glass . . . and it does not effloresce or "bloom" when hermetically sealed with an air space between two lights. This means it will retain its perfect visional qualities in double glazing.

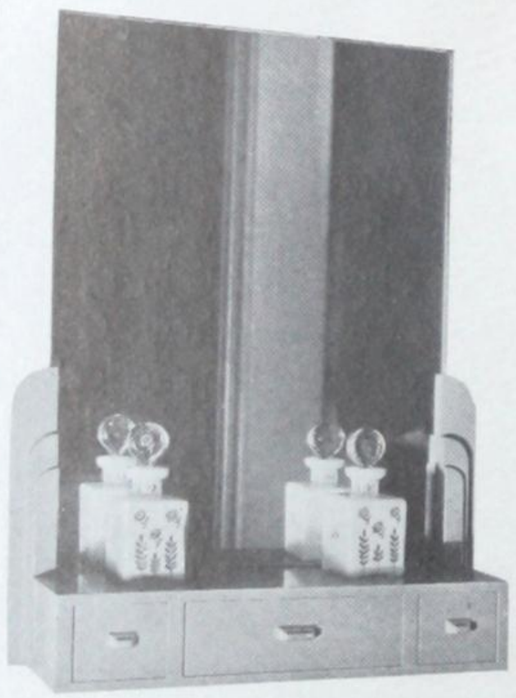
If, in your new home, you are fortunate enough to have air conditioning, it is virtually essential that you use double glazing throughout your house. Then you will have the most perfectly controlled warmth in winter and cooling conditions in summer.



DOUBLE GLAZING *assures control of house temperatures, fuel economy, and best results from air conditioning in your home. Water White Plate Glass is a most satisfactory glass to use for double glazing.*

PITTSBURGH
PLATE GLASS COMPANY

MIRROR MAGIC



© C. N. P.

A HANGING SHELF *like this, backed by a mirror and topped with mirror glass, forms a nice touch of decoration in your bedroom or dressing room.*



This four color photograph reproduced through the courtesy of House & G.

SOMETHING NEW *under the sun—Donald Deskey hobnobbing with the Celestial Empire! Result: Chinese-modern furniture—a new conception combining the forthrightness of today with the curves, the color, the quirks of that glamorous style from the Far East which has invaded every great period. Milady's dressing table is groomed for all gala occasions when placed in companionable proximity to a lovely Blue Plate Glass Mirror like this.*

WHAT an amazing transformation the proper use of mirrors can make in any home. And if you are designing a brand new home, you simply must not neglect the many, many charming possibilities which mirrors open up to you. Of course, there are many places here and there throughout a home where the decorative framed mirror will find a place. But do not forget that there are just as many other places where a built-in mirror, or a touch of mirror glass, will add untold effectiveness to a room.

The modern architect as well as the modern decorator has long recognized the true value of mirrors. And rightly so, for nothing can turn the commonplace into the beautiful, the dull into the gay, the drab into the colorful, so successfully as mirrors properly selected and properly placed.

Period mirrors, authentic to the last detail. Mirrors with lovely frames of every conceivable design and color. Plain, unframed mirrors in any and every shape. Mirrors made from colored plate glass . . . Flesh Tinted, Water White, Blue. Mirrors with gold backs, silver backs, gun-metal backs. Yes, truly, the innumerable styles of mirrors literally beg for use in your home, to make it more lovely, more attractive, more livable. And all of the mirrors we have named are offered for use in your home by the Pittsburgh Plate Glass Company. All are fabricated from the very finest Polished Plate Glass, all offer absolutely true reflections and unusually long life. And all of these types, if desired, can be furnished as Pittsburgh Copper Back Mirrors, protected by a coating of copper against deterioration from atmospheric or climatic conditions.

Mirrors are centuries old. Gorgeously decorated frames for them were designed and used as far back as the Italian Renaissance. But through most of their history, mirrors have been largely utilitarian objects . . . serving as looking glasses, as aids to dressing. Today, they serve that purpose better than ever before. For the mirror glass manufactured now, and placed in just as beautiful frames as in Renaissance days, is far, far superior to any mirror glass available then. And now the use of mirrors to serve *decorative* purposes is growing by leaps and bounds.

We can point out here only a few of the many ways in which mirrors can be advantageously employed for greater beauty in your home. But your own imagination will add many more.

Mirrors Room by Room

THERE is a place for mirrors in every room of your house. Wherever a reflecting surface will aid the general decorative scheme, there a mirror belongs. For example, when windows with colorful curtains or drapes are on only one side of a room, let us place a mirror on the wall opposite to repeat the color and reflect the light on an otherwise dull, monotonous expanse. By employing mirrors in this way, you can make your rooms seem more spacious, lighter, gayer and more colorful.

Or suppose you have a room with a dark corner in it. Here is a splendid opportunity to let a mirror work a magic change. Put a mirror in that dark spot . . . and see how it lightens it, see how it reflects the color and light of the rest of the room, see how its sparkle attracts the eye and gives life and interest to an otherwise uninteresting corner!

Some of the newer ways of using mirrors in decoration are worth your consideration, too. Mirror glass is impressively ornamental as a frame for doorways, as wall paneling in certain rooms, with some of the panels being hidden doors. Mirror glass is being utilized extensively now-a-days for interesting inserts, for ceilings, for framing recessed windows, for livening up even small objects in a room, for table, desk and buffet tops.

May we give you a few hints for the use of mirrors in various rooms of your home?

Living Room. Your living room is a room in which you usually seek rest, relaxation and quiet pleasure. Therefore you must place mirrors in this room with care, to prevent the reflection of movement, of human action, of human faces, as this kind of reflection is not conducive to restfulness. Let your living room mirrors reflect flowers, or vases, or a window opening or a lovely view.

Dining Room. In the dining room, mirrors add a cheerful, sparkling note difficult to duplicate in any other way. A mirror over the buffet, for example, seems to be perfectly at home and indispensable. It will usually serve as well or better than a picture, reflecting a glimpse of the hall beyond, with a winding stair, or a corner of the garden seen through the window or outside the door. The dining room welcomes particularly a Girandole, or bull's eye mirror, convex, and full of intriguing reflections. Shelves



Modern and appealing in every sense is this unusual use of mirror glass in the chimney corner. The fireplace, presenting brilliant reflective surfaces, is built entirely of mirrors, making the room seem larger, more spacious, thoroughly different.

of mirror glass in the china closets, to set off lovely dinnerware, are also very effective.

Entrance Hall. The entrance hall in your home should have a mirror. Nothing can replace it for that last minute glance so appreciated by your guests as they step into your house and prepare to enter the assembled company. A long mirror so placed that it reflects a portion of the room beyond the entrance hall will usually give your hall the welcoming note it needs.

Bedrooms. What bedroom is complete without mirrors . . . not just for looking glasses only, but for delightful decorative effects? Full length mirrors can be set into the doors. The heads of beds achieve a new distinction when fashioned of mirrors. Large frameless mirrors, round or square or oddly shaped, add light and the illusion of spaciousness to your bedroom. Your dressing room shelves may be of mirror glass, to accentuate the lovely shapes of today's perfume bottles and beauty preparation containers. Dressing room walls may be lined with mirrors, too. And mirror window-sills are popular.

Bathrooms. Mirrors are essential in your bathrooms, of course. But make them attractive ones, suitable for the decorative scheme of the rest of the room. You can have mirrored half-walls or ceilings in the bathroom. Or a mirror panel at the back of the tub recess, with a design sand-blasted and painted on it, perhaps. Or you can have wide mirror insets to reflect other colorful walls, such as walls of Carrara Structural Glass.

In decorating your home with mirrors, remember that unique and eye-catching effects can often be gained by using colored mirrors. Mirrors fabricated from the Flesh Tinted Plate Glass made by the Pittsburgh Plate Glass Company, for example, give warmth, life and color to a room as well as a pleasingly flattering reflection to the person who looks at them. Or mirrors made from the new Blue Plate Glass developed by the Pittsburgh Plate Glass Company strike a decorative note as modern as it is distinguished. Depending upon the color scheme of your rooms, you can also utilize to advantage mirrors with silver, gold, gun-metal or copper backs. And for the most perfect, natural reflections possible to obtain, mirrors made from Water White Plate Glass are the thing.

By all means, do not neglect the opportunities for working mirror magic in your home!

YOUR ENTRANCE HALL
needs a mirror . . . for that last minute glance which is such a satisfaction to arriving guests . . . for the welcoming note so difficult to create in any other way.



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PLEASANT PRIVACY
with lots of light

UNDOUBTEDLY there will be places in your home where you will not wish to use a clear, transparent glass for glazing. In bathroom windows, for example, in door transoms, in glass doors through which you do not care to permit easy vision. Yet in striving for this privacy, you do not wish to sacrifice light. And you need not do so if you will use Tapestry Glass, manufactured by the Pittsburgh Plate Glass Company.

Tapestry Glass is a unique glazing material that not only affords pleasant privacy by obstructing the view—but also admits the maximum amount of light. And the appearance of this Tapestry Glass is extremely attractive, too.

Its silvery, rich-looking surface, glinting and sparkling in a curiously live fashion when light touches it, creates an effect as pleasing as it is distinctive. And since Tapestry Glass can be strikingly decorated by sand-blasting, chipping or mitering upon its surface, with almost any design you desire, and at reasonable cost, you will find it very helpful in executing decorative plans.



TAPESTRY GLASS *will serve you well for such purposes as this, where you wish to admit the light but obstruct the view . . . where you wish to employ not only a glass which is semi-opaque, but one capable of enhancing a nice effect by its own good looks.*

YOU CAN USE *Heavy Plate Glass in a hundred striking ways in your home. Here are only two of them—for attractive modern shelves and for good-looking, perfect-vision home aquariums.*

Decoration in the
MODERN MANNER

NO discussion of the use of glass in your home would be complete without a brief mention of Heavy Plate Glass. This is a medium becoming increasingly popular in today's homes . . . because it can be used so effectively in so many varied ways. There is a smooth, lustrous beauty about Heavy Plate Glass that makes it unusually eye-catching and smart-looking, and adds greatly to the appearance of any of your rooms where it is employed. Here are just a few of the possible ways you can use Heavy Plate Glass to advantage in your home: Table tops, desk tops, book shelves, decorative panels and partitions, shower enclosures, glass roofs, glass flooring, skylights, semi-enclosed telephone booths, lighting fixtures, home aquariums, modernistic furniture shelves, and modernistic furniture.



How to make your BATHROOM and KITCHEN distinctive

MANY and many a time, your whole home will be judged by your bathroom and kitchen. If these rooms are commonplace in appearance, only too often the impression created by your house as a whole is one of mediocrity. Perhaps this is because the other rooms in your home, although they are not particularly beautiful in themselves, can be made attractive by the tasteful and colorful furnishings with which you give them character and distinction . . . while your bathroom and kitchen must necessarily stand or fall upon their own intrinsic merits.

Of course, the keynote of your bathroom and kitchen is struck by the walls. They are the background for your fixtures . . . but they are also a decorative note in themselves if properly planned. They should be good-looking, permanent, easy to clean, and thoroughly practical in every way. And the easiest way to be sure that they *are* all these things is to use Carrara Structural Glass for them.

This beautiful wall material is ground and polished mechanically to give it absolutely flat, brilliant, reflective surfaces, and at the same time, it is more than a glass . . . it is a strong, tough, permanent structural material that withstands time and the rigors of use as well as, or better than, other wall materials used for the same purposes. Being available in five beautiful color-tones . . . Ivory, Jade, Gray, Black and White . . . Carrara makes possible many appealing color schemes.

You can have Carrara Structural Glass decorated almost any way you choose. Designs etched on it in deep or shallow relief, and brought out by the application of color. You can get Carrara shaded, fluted, laminated, chipped, honed-finished. There is no limit to the possibilities it offers.

And how practical it is! Imagine walls that you can keep in perfect condition by an occasional easy wiping with a damp cloth! Imagine walls that never check, craze, fade, stain, absorb odors, or deteriorate through the action of oils, chemicals and moisture! Imagine walls that will be as beautiful thirty years from now as they are today!

Walls of Carrara are easy to install . . . and cost surprisingly little when their quality and advantages are considered. The illustrations on the next few pages of Carrara bathrooms and kitchens will give you some conception of the beauty and decorative possibilities of Carrara when used in your home.



BATHROOMS

pretty and practical

WOULDN'T you be proud to show your friends this bathroom in your new house? Here live gayety and beauty, freshness and cleanliness . . . all enticed to make this room their home by the use of Carrara Structural Glass. White Carrara forms the wainscoting and the walls of the tub recess, and the upper walls add their quota of loveliness by means of soft, Sky Blue Wallhide Paint.

Walls make the bathroom . . . as this lovely room proves. And speaking of walls, where can you find any that will retain their beauty longer, that will be so sanitary, that will be easier to clean than these? Carrara Walls look just as lovely, and smile at you just as brightly thirty years from now as they do today. Here Gray Carrara Walls with Black Carrara trim touch off the vital spark of personality that makes your bathroom beautiful.

A millionaire's bathroom? No . . . it can be yours. Black, White and Gray Carrara are combined to create a room of elegance, character and obvious loveliness. Notice how the Black Carrara trim is decorated . . . illustrating the versatility of this wonderful wall material.





Kitchens to banish fatigue

WORK is more pleasure than duty in a kitchen like this. The beauty of the Ivory Carrara wainscoting, in this case assisted by upper walls of Suntone Wallhide Paint and cabinet finished in Seal Brown Waterspar Enamel, brings joy and zest into your kitchen, banishing the fatigue of your kitchen routine. And banishing, too, the fatigue of wall cleaning . . . for Carrara Walls require only an occasional wiping with a damp cloth to keep them spotless!

Welcoming walls like these make each trip you take to your kitchen a new surprise, a new sensation of pleasure. Show your informal guests this room, and watch their sheer admiration and envy, as they exclaim "What a perfectly beautiful kitchen!" Carrara Walls usually wring such exclamations from all who see them . . . they are so brilliant, reflective, and pleasingly mellow of color. Ivory Carrara Walls, set off by Apple Green Wallhide upper walls in the window recess, are the secret of success in this kitchen.

A lovely, up-to-the-minute kitchen for your home if there ever was one! These Ivory Carrara Walls, accented with Gray Carrara trim, will never absorb cooking odors, never craze, check, stain, fade color or deteriorate from the action of moisture, chemicals, grease or grime. Upper walls are of soft blue Wallhide Paint.





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PAINT...

its purposes and possibilities

NOTHING can be more helpful to you in making your home beautiful, modern and tasteful than paint. And while performing its beautifying functions, paint also renders you inestimable service in protecting and preserving from deterioration the surfaces it covers, keeping your property in better condition and making it more livable.

The proper use of paint in a dwelling is really a science . . . but a science in which a few simple rules will guide you to success. To any one considering the building of a new home, or the modernization of an old one, it is extremely valuable to have a general working knowledge of the purposes and possibilities of paint.

Interesting INTERIORS

LET us first see how paint should be used properly in the interior of your home. Of course, the principal problem that faces you is the problem of colors . . . what colors of paint to choose for what purposes, what color combinations are correct and harmonious, what type of rooms need what type of coloring.

The easiest approach to this problem is first to get clearly in your mind the differences and attributes of "warm" colors and "cool" colors. "Warm" colors include yellow, gold, orange, brown, pink, rose and red . . . and their various tints. "Cool" colors include gray, blue, green, violet and silver or aluminum. In addition to these definitely warm or cool tones, there are several neutral tones which do not fall into either classification. Neutral tones are those like ivory, cream, buff, putty, tan.

Warm colors usually look best in rooms facing north, or in rooms with east or north exposures. Cool colors are recommended for rooms facing south or rooms with west and south exposures. Neutral tones are most successful in rooms of uncertain exposure, where west light, for example, conflicts with east light. However, for such rooms, either warm or



A BREAKFAST NOOK *that really says "good morning"...thanks to Light Buff Wallhide walls and smart breakfast room furniture finished in Blue Waterspar Enamel.*

cool colors may be used if the colors are sufficiently reduced in intensity.

Now, what about choice of colors for each room? There are a few general rules that prove valuable as a guide in this connection. Walls, ceiling and floor comprise the main visible surfaces of the room . . . its shell . . . and all furnishings which go into the room must be chosen with relation to this shell.

In planning most rooms, remember that the darkest plane in the room should be the floor, especially where furnishings are light in tone. In bedrooms with light trim, lighter floors are permissible. The baseboard of the room should carry the tone of the floor, or the tone of the rest of the woodwork, which should be kept in harmony with the floor.

The lightest colored plane in your room, as a general rule, should be the ceiling. But it need not be too light and glaring . . . just a shade or two lighter than the tint of the walls is preferred by leading decorators.

As for the tones that can properly be used on the walls of a room, remember that walls are a background for the room's furnishings. They should be soft in tone, mellow, soothing . . . not decorativ objects in themselves, but lovely, restful background for the bright colors of the room's furniture, upholstery, drapes, pictures, windows, rugs, etc. To attain beauty, Nature provides a distant, soft back-dro of landscape for nearby objects of color. Your wall should do the same thing. This is a rule which it' wiser not to depart from, save under very unusua circumstances.

The character of the room you are painting shoul also influence the color harmony chosen. For example, your living room is supposed to be warm cozy, comfortable . . . and you ought therefore t choose colors of this type. Your bedrooms should b restful . . . and need restful color-tones. Your dining room is a room of good cheer . . . and the paints you choose for it should reflect this feeling in their colors. Sun rooms should be finished in warm, sunny colors, kitchens in cool, sanitary-looking tones.

Now, what of the color schemes for rooms which can be seen from each other, that are connected, let us say, by double doors of glass, or that run into each other without very definite separation? For

THE MAGIC OF PAINT AT WORK. *Here White Wallhide-finished walls form a lovely background for the colorful rugs, furniture, drapes, etc. The ceiling, painted with Cascade Blue Wallhide, brings a touch of soft, pleasing color to add to the cheerful effect of this dining room.*



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COLOR IN THE KITCHEN . . . *to complement the soft, polished surfaces of Carrara Glass wainscoting, Peach Wallhide for the upper walls puts sparkle and vitality into the room, makes this kitchen a more pleasant place in which to work. Ceiling is finished in Mist Gray Wallhide.*





IN THIS BATHROOM, *paint plays a very important part indeed. The walls of White, Jade-trimmed Carrara are given life, charm and appeal by the upper walls, finished in Peach Wallhide Paint, which set them off. The ceiling is finished in a lighter shade of Wallhide.*

such rooms in your home, harmonious color schemes should be chosen, not necessarily exactly alike, but blending without sharp contrast. If this plan is followed, your rooms will seem to go together better, will seem to be a part of the same home.

Another good thing to bear in mind is that in the painting of a room, objectionable features about the room's shape may be overcome by proper painting. For example, emphasizing the vertical lines in a room which is too low for its size, will make it seem higher and in better proportion. There are many facts about painting and color selection, which, if you are familiar with them, enable you to have your home painted in keeping with good taste and to take full advantage of the decorative possibilities of each room. And there are facts you should know about the actual paints themselves, too—facts that will save you money and trouble when the question of paints for your new home arises. For this reason the following paragraphs will be of great practical interest to you.





COOL, DAINTY AND RESTFUL . . . *this bedroom with tasteful walls of Horizon Blue Wallhide and ceiling of Ivory. Note how the floor forms the darkest color plane, the walls the next darkest tone, and the ceiling the lightest.*

A NEW KIND OF WALL PAINT

FOR painting the walls and ceilings of your rooms, we suggest that you insist on Wallhide, the "Vitolized Oil" Paint. This is a new kind of wall paint . . . a better kind . . . developed by the Pittsburgh Plate Glass Company especially for use in homes.

As indicated by its name, "the Vitolized Oil Paint," Wallhide has one unique quality that sets it apart from other wall paints. It retains the oil in its composition which gives it longer elasticity and life. Perhaps you can understand this quality better by a little example to show what we mean. Take an ordinary piece of wrapping paper . . . like the paper your butcher wraps your meat in for delivery. Spread a brushful of ordinary first coater wall paint on that paper . . . and when you turn the paper over immediately, you see that the oil from the paint has soaked through to the other side. But spread a brushful of Wallhide First Coater on the paper . . . and the other side shows no sign of oil soaking through . . . even after a lengthy period. That's the difference between Wallhide and ordinary wall paints. The oil in Wallhide First Coater does not soak into the plaster on your walls . . . it stays in the paint itself, preventing it from becoming dry, protecting it against chipping, scaling, peeling, cracking. And subsequent coats of Wallhide also provide "controlled penetration" in a slightly lesser degree. Consequently, Wallhide walls last much longer, are more economical, require less repainting.

Often in painting the walls of a new house, trouble is encountered because of "alkali spots" on the walls . . . places where the plaster is not quite the same as on the rest of the walls. Sometimes these "alkali spots," when paint is applied, cause a chemical reaction between paint and plaster, making the paint at these places slightly different in color from the rest of the walls. Since Wallhide does not react in



FOR THE MEN OF THE HOUSE . . . *this lazy, debonaire den with dark floor and neutral-toned walls, made distinctive by the use of various colors of Wallhide applied in horizontal stripes.*



LOVELINESS *any home owner could be proud of . . . obtained through a proper use of paints. The walls here are finished in Palmetto Green Wallhide, the floors varnished and waxed, and the white woodwork in White Waterspar Enamel or Banzai Enamel.*

this way it minimizes trouble from this source and assures an even tone over the entire surface.

Another great advantage offered by Wallhide is one day painting . . . eight hours after you begin to apply Wallhide to a room, the paint is dry enough to hang pictures and drapes—even when two coats are applied! Wallhide is available in fifteen beautiful colors, all soft, mellow and pleasing, to provide the proper background for the furnishings of your rooms. All Wallhide paints are washable. And you can obtain Wallhide both in the modern "flat" satin finish and in semi-gloss for bathrooms and kitchens.

WHAT ABOUT YOUR WOODWORK?

FOR painting your woodwork, cabinets, furniture, etc., insist that the new magic Waterspar, one coat, Quick Drying Enamel be used. This fine enamel is available in eighteen beautiful shades in addition to gloss white and flat white, gloss black and flat black, gold and aluminum. The colors carry a uniformly high gloss, dry thoroughly in four hours after application, and are extremely durable and resistant to marring and abrasion. Waterspar colors were chosen to harmonize with Wallhide walls, and therefore make the ideal combination for redecorating interiors.

MAKING FLOORS BETTER-LOOKING, MORE PRACTICAL

FOR painting floors which you desire to finish without the wood grain showing through, such as floors in the attics and store rooms, or for outdoor porch floors and porch steps, use Florhide Enamel. This paint dries dust-free in two hours after application, and gives an even, glossy and beautiful covering. Florhide provides a tough, hard film and thus protects the surfaces it covers against wear, moisture, sunlight and climatic changes. Florhide is furnished in ten modern colors in addition to white and black, all of them designed to blend harmoniously with popular wall and woodwork colors.

HOW TO EMPHASIZE THE WOOD GRAIN IN YOUR FLOORS

FOR floors in which you desire to bring out to the full the natural beauty of their wood grains, use Pitcairn Wood Stain. This stain penetrates the wood of the floor and colors the fibers, bringing out and developing highlights and the grain of the wood. It is available in eleven modern colors.

For varnishing floors, you will find Waterspar Floor Varnish the best thing to use. It is unmatched for fulness of body, for high luster, for toughness . . . and dries in four hours. It withstands abrasion unusually well and guarantees long, satisfactory service.

Your varnished or painted floors can also be made more beautiful and more desirable by the application of Waterspar Wax, available in liquid, paste, and self-polishing types.

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THIS HOME ENTRANCE *is made inviting and sheerly beautiful by the use of Banzai White Enamel. This quality enamel may also be obtained in various tints. Banzai offers wide possibilities for unusually pleasing effects, as well as matchless durability.*

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PLATE GLASS COMPANY



A MODERN EXTERIOR
color harmony. Wallhide Exterior Primer finished with Havana Cream Cementhide Paint is used for the stucco body. Beams are finished with Walnut Tor-On Shingle Stain. Brick Red Sun-Proof Paint decorates the steel casements. And the roof gets its beauty from Maroon Tor-On Shingle Stain.

Exciting EXTERIORS

That Present a Smiling Welcome to the World

THE painting of the exterior of your home presents a delicate problem. The kind and color of paints used are extremely important for they often make all the difference between a house that looks suitable, well-planned and attractive and a house that lacks these essentials.

There are many factors to consider in making a proper choice of paint colors. The type of architecture presented by your home. Its geographical location . . . because a color combination that may be pleasing in Florida or California may be entirely out of taste in a Maine or Michigan setting. The surroundings of the house, its gardens, its neighboring structures, its trees, its location in a hollow, on a slope, at the top of a hill . . . all these merit careful thought as influencing circumstances to guide your choice of exterior color schemes.

The following general rules for exterior painting are worth remembering:

There are possible variations for various types of architecture. The color combination in general use is not always the only possible one. For example, a Colonial house, popularly painted in Colonial White, can also be painted with yellow body, green shutters and roof, and white trim, as this combination is just as correct historically as the other.

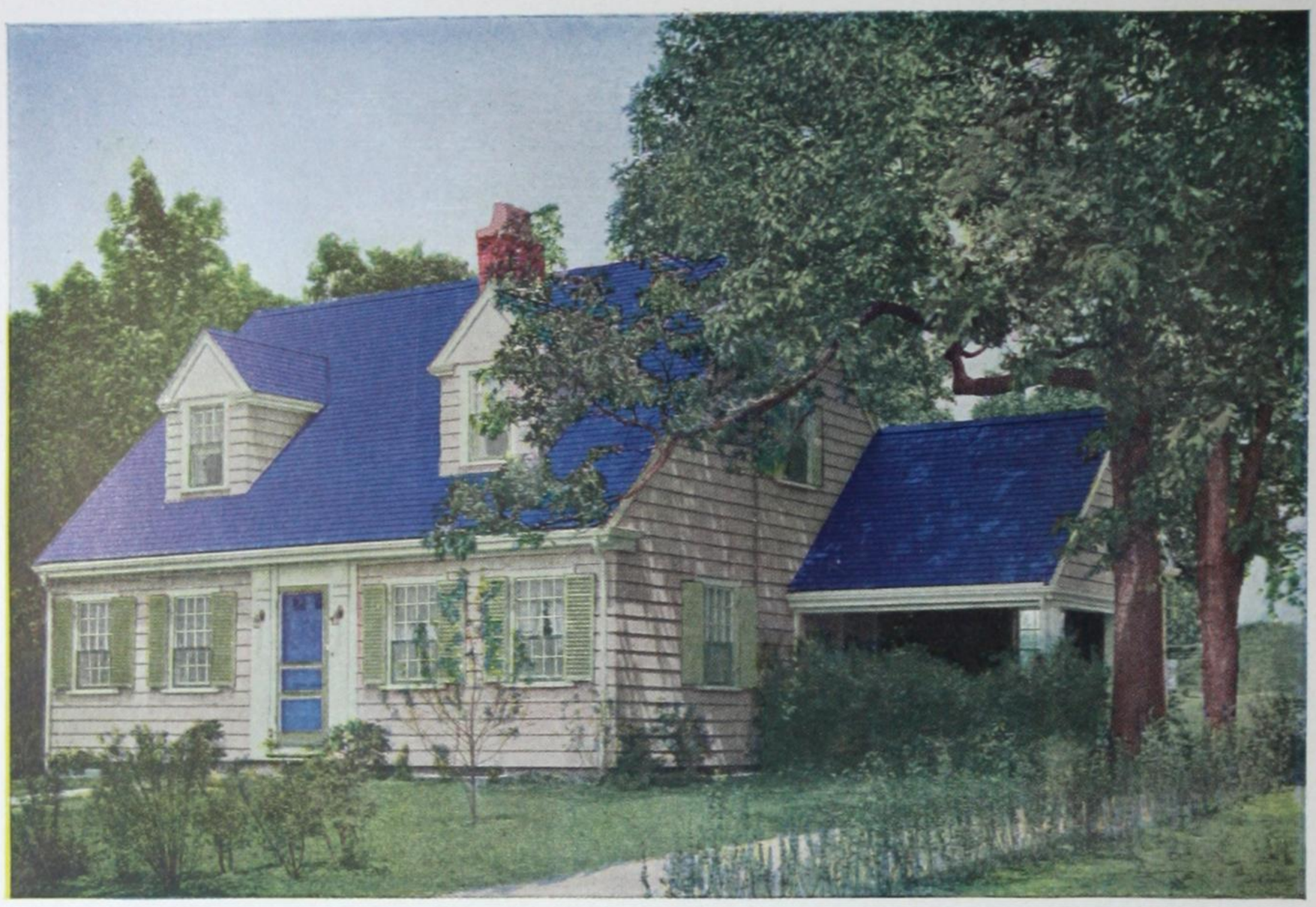
If your house is located at the top of a hill, with comparatively little foliage, or very few big trees surrounding it, you'll usually find cool colors most satisfactory. If your house is located on a slope with green shrubbery or other cool colors as a background, warm colors may be used effectively for the house itself.

If your house is in a beautiful setting of brightly colored flowers, cool colors on the house are tasteful and attractive.

Warm colors and deeper tones are preferred for climates where "gray" days predominate. And in warm climates, where sunshine is plentiful, cool colors are commonly most pleasing.

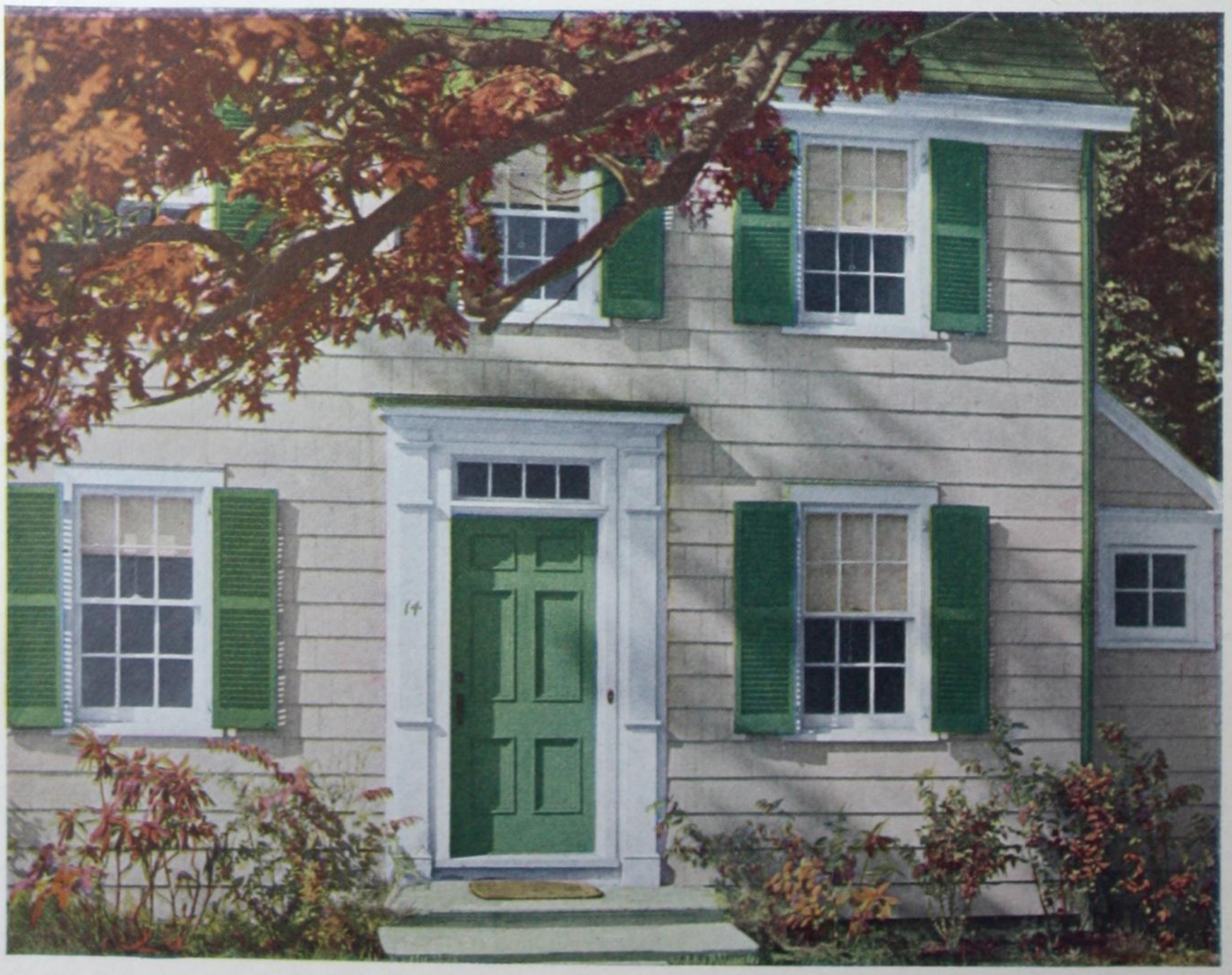
Houses with principal exposure to east, west or south light, suggest the use of cooler colors, while

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A STUDY IN GRAY AND BLUE. *The body of this house is finished with Gray Tor-On Shingle Stain; the trim in Light Stone Sun-Proof Paint; the shutters in Russian Gray Sun-Proof Paint; the roof with Blue Tor-On Shingle Stain; and the door in Spanish Blue Sun-Proof Paint.*

AS MODERN AS TOMORROW! *The color harmony is obtained by using Gray Tor-On Shingle Stain for house body; Moss Green Tor-On Shingle Stain for roof; Sun-Proof Titanic Outside White for trim; and Copper Verde Sun-Proof Paint for shutters and door*



houses with principal exposure to north light can usually be made more inviting by the use of warmer colors.

Dark green or blue shutters are nearly always effective if the window trim of your house is in white. And a warm-tinted body with a cool white or pastel-tinted trim is generally in good taste, especially when bright colored awnings are used to add warmth to the ensemble effect.

Unless a new house is painted in proper colors, it may appear somewhat "out-of-place" before its surrounding shrubbery and landscaping has had a chance to develop. While waiting for the shrubbery to grow, a light color of paint is recommended. Then, when the shrubbery reaches maturity, a warm color will show the house to better advantage.

The neighboring houses, if there are any, should always be taken into consideration in painting your own home's exterior, as their color schemes may affect the one you choose. You may want your house to contrast with them, or to be in harmony with them.

KNOW YOUR PAINTS . . . AND IMPROVE YOUR HOME

THE Pittsburgh Plate Glass Company manufactures an exterior paint for every purpose. The paints furnished by this company are the result of many years of constant development and improvement by special paint research laboratories. Using Pittsburgh Paint Products, you are assured of the highest quality paints possible to obtain, and therefore a more beautiful, more satisfactory home.

THE BEST FOUNDATION FOR OUTSIDE PAINT

FOR the foundation coat or primer you will get utmost satisfaction by insisting that Wallhide Exterior Primer be used. This Primer has the same great advantage as that possessed by Wallhide interior wall paints. It retains the oil in its composition indefinitely, not allowing it to soak into the wood or plaster or masonry. The result is that the Primer does not dry out, but imparts its elasticity to the finishing paints put on over the Primer. As a result your paint job will not chip, blister, crack or peel. Wallhide Exterior Primer has excellent hiding qualities, dries overnight, and presents an excellent surface over which to put on the finishing paints.

THIS PAINT WILL MAKE YOU PROUD OF YOUR HOME'S APPEARANCE

PATTON'S Sun-Proof Paint, the oldest of the Pittsburgh Paint Products, has for years been recognized as a leader in quality among exterior paints. It is suitable for use on every surface, although mostly applied on wood. It is available in twenty-four carefully selected colors, besides Black and White, all made from the purest colors obtainable. There is an ample assortment for every purpose . . . whether you use Sun-Proof for body color, trim, or porch ceilings.

TO COLOR YOUR SHINGLES AND PROTECT THEM

IF shingles have been employed in the construction of your home . . . for roof, upper walls or full walls . . . insist that they be painted with Tor-On Shingle Stain. This quality stain protects your shingles against fungus growth, splitting, warping or decay. As the shingles of your home are subjected to continuous and direct exposure to weather . . . rain, sleet, snow, sun . . . they should be protected by Tor-On Shingle Stain. It is available in nine beautiful shades, designed to give your home an added appearance of smartness and appeal.

A SPECIAL ENAMEL

WHERE you wish for a white painted finish of outstanding beauty and excellence, use Banzai Enamel. This enamel gives you the most intense white color science can produce. And surfaces painted with Banzai Enamel are extraordinarily smooth, brilliant and glossy of appearance. This enamel also assures an unsurpassed durability and finish.



PRESENTING A WELCOME *to the world, this home proves so effective because of the tasteful paint colors selected. The house body is Pueblo Buff Cementhide; the trim, Sun-Proof Titanic Outside White; the roof, Moss Green Tor-On Shingle Stain; the shutters, trellises and lattice, Copper Verde Sun-Proof Paint.*

The

PITTSBURGH
PLATE GLASS COMPANY

Offers You Quality Products and Unexcelled Service

THE Pittsburgh Plate Glass Company, since its inception, has consistently maintained the highest standard of quality in the products it offers to the home-owner and the home-builder. To make our glass and paint products as satisfactory to you as possible, millions of dollars have been expended in research, in field tests, in the development and perfection of the most modern and efficient machinery and methods. When you buy any glass product or any paint product manufactured by the Pittsburgh Plate Glass Company, you can rest absolutely assured that you are getting an article of the superior excellence which has gained for this company the enviable position of leadership it holds.

In the convenient service it renders you, this company is also outstanding. We maintain seventy-one fully stocked warehouses, located in most principal cities, which are prepared to supply your paint and glass needs promptly. One of these warehouses is undoubtedly situated within easy communication distance of your home. Furthermore, there are dealers who can supply you with Pittsburgh Glass Products and Pittsburgh Paint Products right in your own community, wherever it may be.

We suggest that you get in touch with our nearest warehouse, or ask your paint or glass dealer, for any information you may desire concerning the many paint and glass products offered for your use by the Pittsburgh Plate Glass Company. Or write direct to the general offices of the Pittsburgh Plate Glass Company, 2200 Grant Building, Pittsburgh, Pennsylvania.

PITTSBURGH
PLATE GLASS COMPANY

Pittsburgh Plate Glass Company
2200 Grant Building
Pittsburgh, Pa.

Please send me the following information in connection with the description of Pittsburgh Plate Glass Company Products contained in the Home Owners Catalogue:

☐ The name and address of my nearest paint and glass dealer who can supply me with Pittsburgh Products and advise me on their proper use.

Complete information, color chip folders, literature, etc., on:

☐ POLISHED PLATE GLASS
☐ VISTA PLATE GLASS
☐ PENNVERNON WINDOW GLASS
☐ TAPESTRY GLASS
☐ HEAVY PLATE GLASS
☐ CARRARA STRUCTURAL GLASS
☐ WALLHIDE VITOLIZED OIL PAINT
☐ WATERSPAR QUICK DRYING ENAMEL
☐ FLORHIDE ENAMEL
☐ PITCAIRN WOOD STAIN
☐ WATERSPAR FLOOR VARNISH
☐ WATERSPAR WAX
☐ WALLHIDE EXTERIOR PRIMER
☐ SUN-PROOF PAINT
☐ CEMENTHIDE
☐ TOR-ON SHINGLE STAIN
☐ BANZAI ENAMEL

Name _____

Address _____

City _____ *State* _____

Make Sure the Glass and Paint Used In Your Home are the Products of

PITTSBURGH PLATE GLASS COMPANY

In order to insure the use of the finest quality glass and paint products in your home, instruct your architect to specify the products of Pittsburgh Plate Glass Company. And indicate to your building contractor your desire to have him use Pittsburgh Products in the home he builds for you.

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ED IN PITTSBURGH, U. S. A.
LLIAM G. JOHNSTON COMPANY

The Paint and Glass Products of the

PITTSBURGH
PLATE GLASS COMPANY

are readily available at our

warehouses in the following cities

AKRON, Ohio
101 Lincoln Street

ALBANY, N. Y.
N. Ferry St., East of B'way

ALLENTOWN, Pa.
827 North 12th Street

AMARILLO, Texas
Thirteenth and Grant Streets

ATLANTA, Ga.
172-174 Marietta Street, N. W.

BALTIMORE, Md.
8-12 S. Paca Street

BIRMINGHAM, Ala.
2nd and 29th Streets

BOSTON, Mass.
300-316 Babcock Street

BRONX, N. Y.
144th and Exterior Streets

BROOKLYN, N. Y.
Jay, Water & Plymouth Sts.

BUFFALO, N. Y.
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BUTTE, Mont.
840 Utah Avenue

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CHICAGO, Ill.
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DENVER, Colo.
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108 East 4th Street

DETROIT, Mich.
Hamilton & Holden Aves.

EL PASO, Texas
1100-06 Overland Street

FORT WORTH, Texas
321-323 S. Main Street

GRAND RAPIDS, Mich.
21-23 S. Ionia Avenue

HARRISBURG, Pa.
17th and Brookwood Streets

HARTFORD, Conn.
38-40 Chapel Street

HIGH POINT, N. C.
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HOUSTON, Texas
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INDIANAPOLIS, Ind.
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1252-1256 W. Beaver Street

KANSAS CITY, Mo.
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203-211 Humes Street

LITTLE ROCK, Ark.
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P. O. Box S. Florence Branch

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MT. VERNON, N. Y.
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Grundy St. and 11th Ave., No.

NEWARK, N. J.
Elizabeth Ave. & Peddie St.

NEW HAVEN, Conn.
26 Mill Street

NEW ORLEANS, La.
1500 Poydras Street

OAKLAND, Cal.*
1125 Castro St., Corner 12th

OKLAHOMA CITY, Okla.
101-103 E. California Avenue

OMAHA, Neb.
14th and Jones Streets

PEORIA, Ill.
913-917 S. Washington Street

PHILADELPHIA, Pa.
Box 6860
16th and Indiana Avenue
(N. Philadelphia Station)

PITTSBURGH, Pa.
632-642 Duquesne Way

PORTLAND, Ore.*
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14-24 Pleasant Avenue, S. E.

ROCHESTER, N. Y.
362 Exchange Street

SAGINAW, Mich.
Fitzhugh and Water Streets

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SCRANTON, Pa.
Wyoming Ave. at New St.

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Fannin and Commerce Streets

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3900 Chouteau Avenue

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Printed in U. S. A. 4446 35M

Quality

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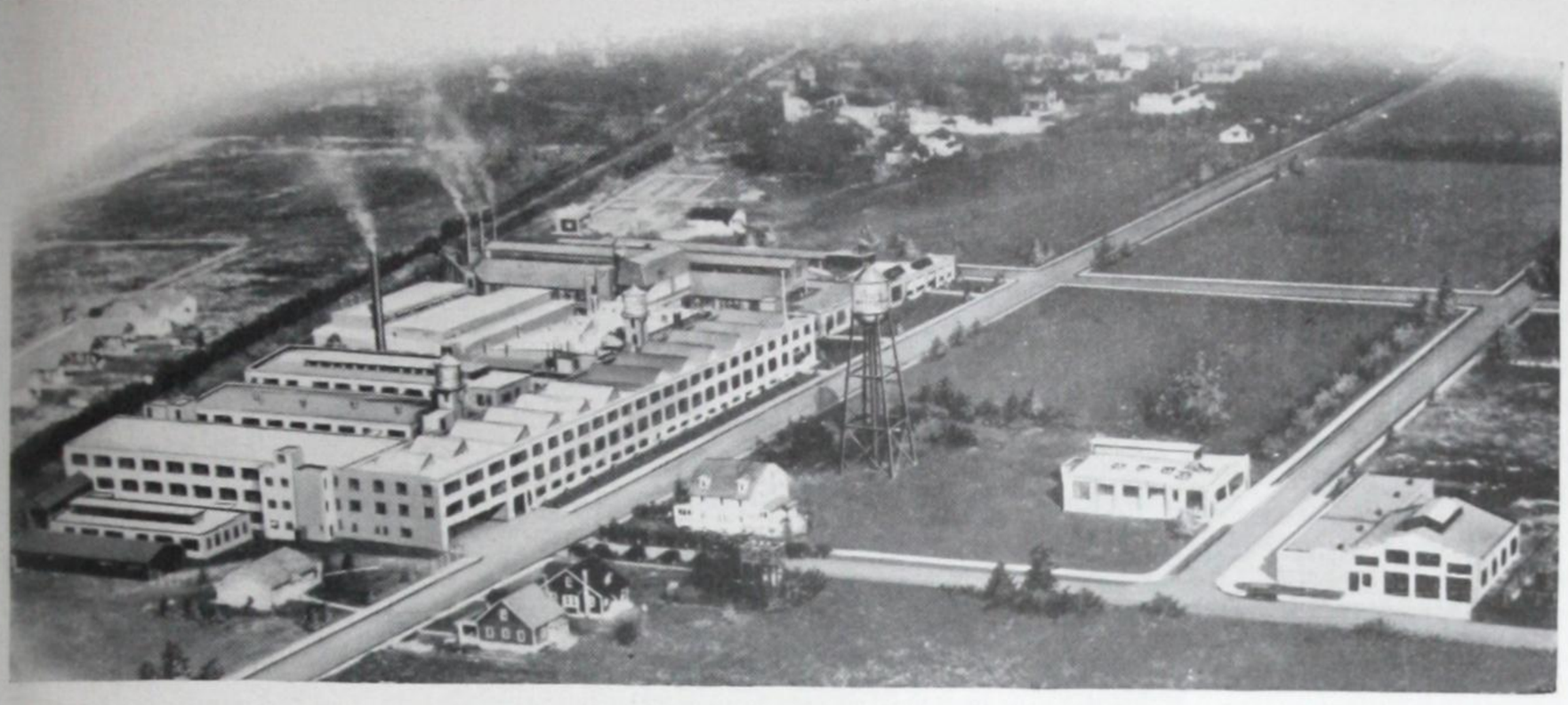
GAS

RANGES

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API INTERNATIONAL

CCA



HOME OF *Quality* GAS RANGES AS SEEN FROM THE AIR

Quality GAS RANGES

REG. U.S. PAT. OFF.

"ALL THAT THE NAME IMPLIES"

The Roberts & Mander Stove Company of Philadelphia and Hatboro, Pa., offers for the approval of the public, the builder and the architect the finest and most complete group of *Quality* Gas Ranges it has ever built. All the experience gained in more than thirty years of fine gas range manufacture . . . all the resources of the modern eleven acre plant at Hatboro, Pa., have been combined toward designing and producing a series of *Quality* Ranges in style and colors that will fit the needs and taste of any home or apartment, whether it be large or small.

Quality **Gas Ranges are built with one thought in mind . . . to do perfect gas cooking and at the same time do it with the utmost in practical convenience, economy and appearance. With an enviable past record for service and durability in more than a million homes *Quality* Gas Ranges for 1934 offer more value, more labor-saving refinements and greater economy and durability than ever before.**

ROBERTS & MANDER STOVE COMPANY · PHILADELPHIA



THE NEW *Quality* ROUND QUICKTOP BURNER

REG. U.S. PAT. OFF.

- **RED for attractiveness**
- **ENAMEL for ease in cleaning**

These new round cooking top burners are a real advancement in gas range burner design. *Quality* engineers, after a great deal of careful study and many exhaustive tests, have developed a burner which they believe to be more efficient and durable than any burner previously in use. Under actual test these new burners show the remarkably high efficiency of 50% and even better. They will produce far more heat for every foot of gas consumed than has been possible before with any durable gas range burner. *Quality* Quicktop Burners are designed to conform to A. G. A. specifications, and they have been tested and approved by the American Gas Association Testing Laboratory.

ONE PIECE CAST IRON CONSTRUCTION

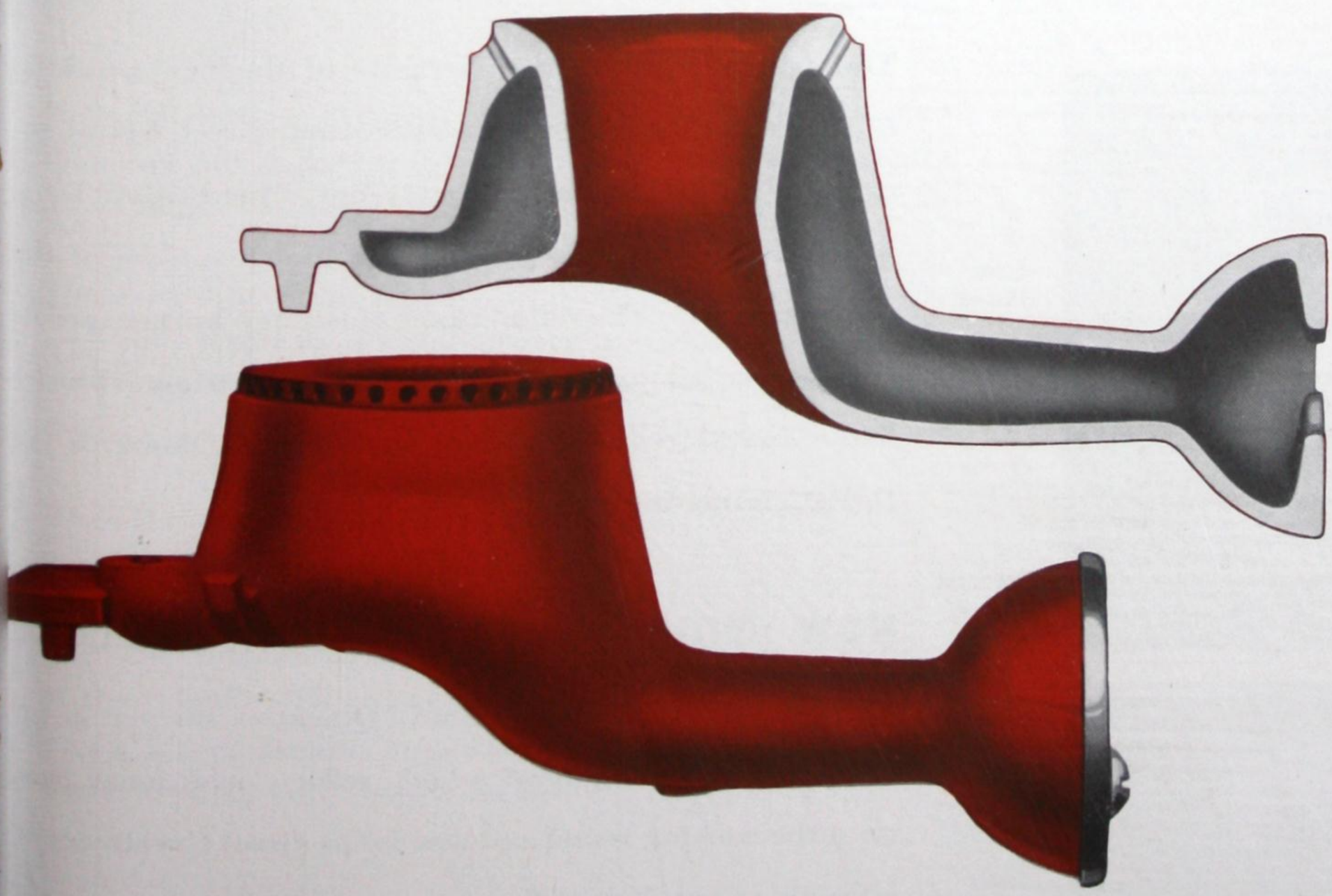
The round Quicktop Burner is made throughout of durable cast iron and is cast entirely in one piece. Being made of cast iron it will not warp, melt or lose its shape under the most severe conditions, as will other gas range burners which are made of less heat resisting metals.

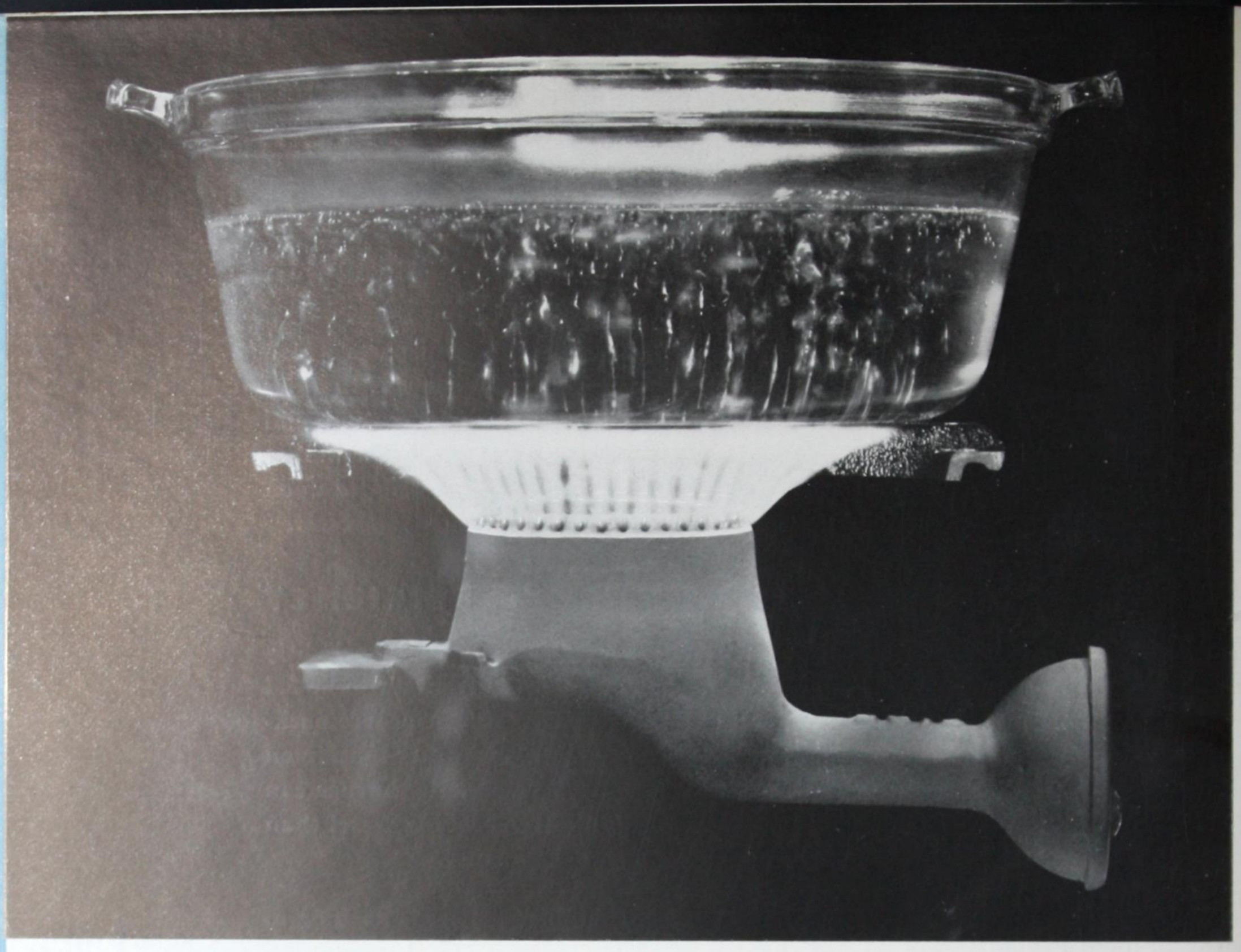
Due to the one piece design of the burner there are no threaded parts which may strip and cause a variation in the size of the ports. The ports of the new Quicktop Burner cannot vary as they are precision drilled, at one operation, and are permanently "fixed" in size. They are drilled through a vertical side wall at an approximate angle of 45°. This reduces the area which can be dripped upon to a minimum and prevents clogging due to overflow from any cooking vessel.

DESIGNED INSIDE AND OUT FOR EFFICIENCY

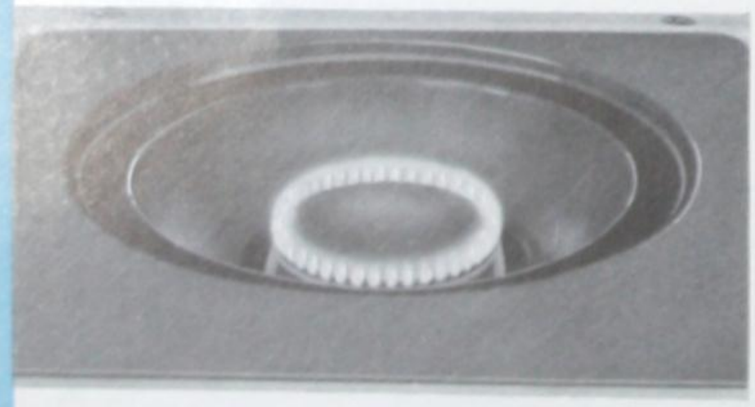
The modified "doughnut" design of the round Quicktop Burner, tapering slightly toward the top where the ports are located, allows a stream of fresh air to be fed to both the inside and outside of the circle of burner flames. This insures remarkably complete combustion of the gas as it is burning in pure air rather than in an atmosphere of the product of its own combustion. Therefore, the burner can be placed, in the range, in a pos'tion closer in relation to the cooking vessel than heretofore, thereby greatly increasing the efficiency of the burner.

Inside, the Quicktop Burner is entirely free of obstructions. There is nothing to prevent the direct and even flow of the gas to all the ports. The flame can be reduced to the tiniest simmering flame without danger of its going out and the burner will light no matter how small the flow of gas. This also insures instant relighting in case the flame should be accidentally extinguished.

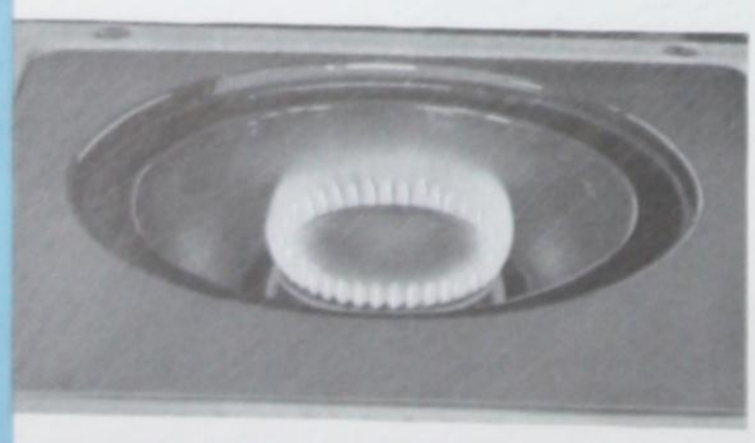




INTENSE, "TORCH-LIKE" QUICKTOP BURNER FLAME



LOW FLAME



MEDIUM FLAME

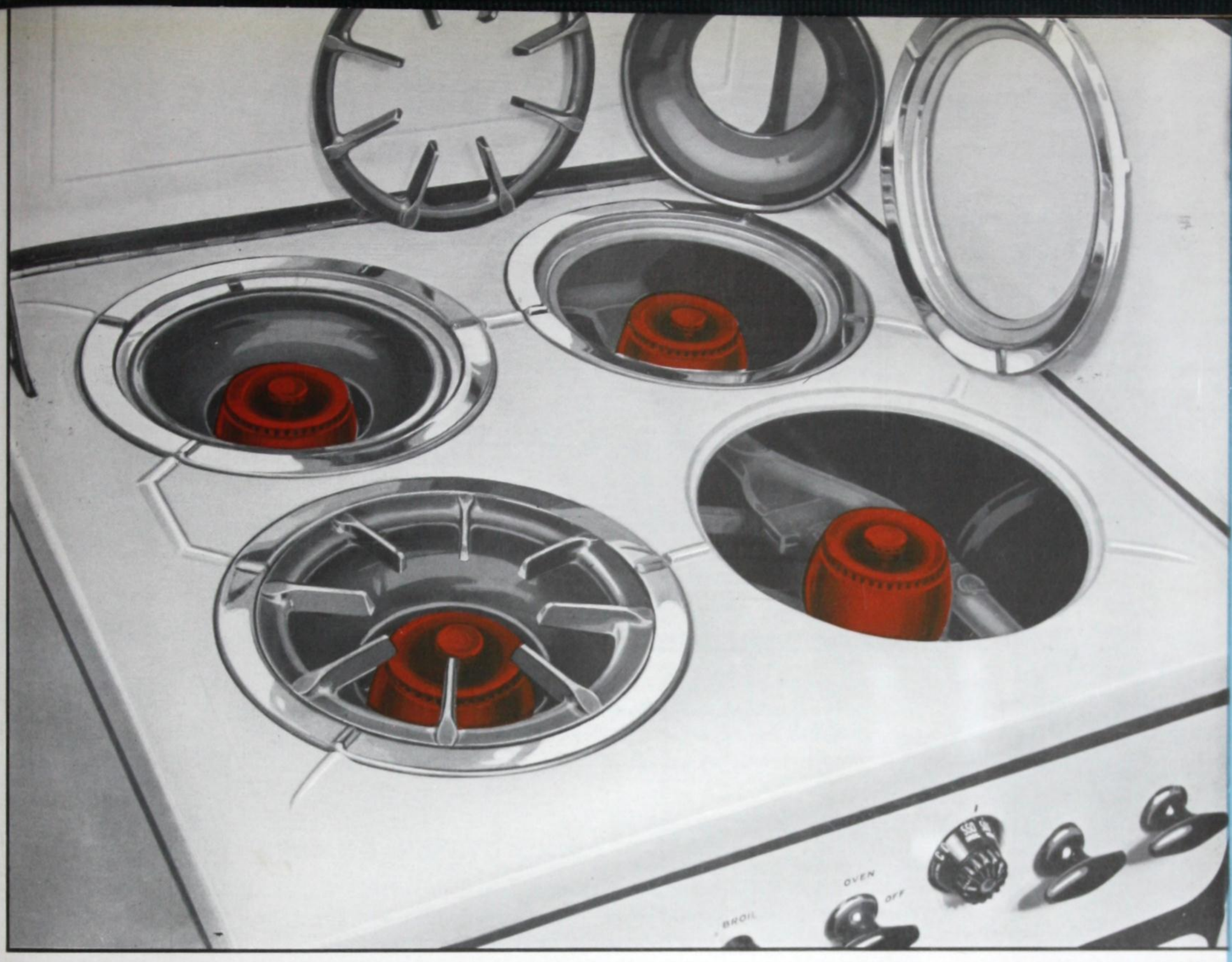


HIGH FLAME

The drilled, "fixed" size portholes of the new Quicktop Burner together with the unobstructed, direct flow of gas combine to produce an intensely hot, "torch-like" flame which is concentrated against the under surface of the cooking vessel. The round shape of the new burner spreads this intense heat uniformly over the entire surface. Burner flame can be reduced to any desired heat, down to the tiniest simmering flame.

NEW QUICKTOP REFLECTING BOWL

Surrounding each new, round, Quicktop Burner is an enameled reflecting bowl which reflects additional heat onto the cooking vessel and also helps direct the stream of pure air to the burner flames.



THE IMPROVED *Quality* QUICKTOP

REG. U.S. PAT. OFF.

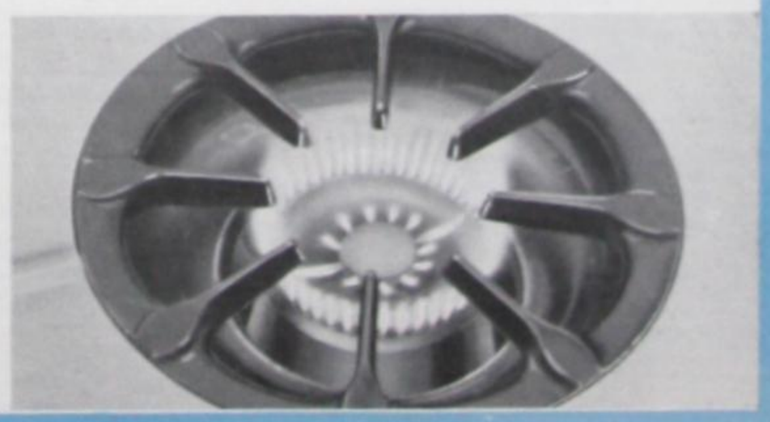
More efficient, convenient and attractive in appearance than ever the *Quality* Quicktop is now standard equipment on all ranges equipped with new Quicktop Burners.

The above illustration shows the porcelain enamel Quicktop with four Red Enamel round Quicktop Burners equipped with Safe-T-Liter, Black Enamel Reflecting Bowls and Grates, and stainless steel rings around the grates.

When Range is equipped with Black Japan round Quicktop Burners the grates are also Black Japan.

The Reflecting Bowls, in addition to increasing the efficiency of the Quicktop by reflecting extra heat onto the cooking vessel, aid in keeping range clean by catching spillovers. Bowls together with Grates are easily removed for cleaning.

The new round *Quality* Quicktop Burner, when equipped with Safe-T-Liter, as illustrated above, has a small simmering burner in the center of each round burner. This small burner lights before any gas enters the main burner and can be used entirely independent of main burner. It is not necessary to move cooking vessel to a separate simmering burner.



FEATURES OF *Quality* GAS RANGES

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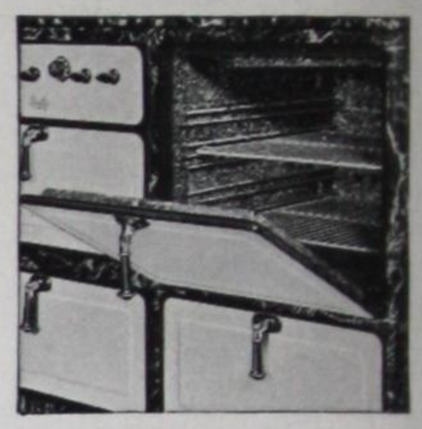


AUTOMATIC OVEN HEAT CONTROL

Keeps a steady oven heat at any desired degree of temperature. Assures successful results in baking. You are free to leave the kitchen while the heat control does the work. It is an indispensable aid to fine cooking.

BALANCED OVEN DOOR

The weight of the oven door and the tension of the oven door springs are so adjusted in relation to each other that the door is perfectly balanced. It will remain in any position from open to closed in which it is placed, and will not drop or fly shut.





AUTOMATIC TOP LIGHTING

With the new improved top lighting equipment, any of the top burners will be lighted immediately when you turn the key. If anything should be spilled on them, and they are extinguished, they will relight at once.

BALL BEARING UTENSIL DRAWER

Convenient drawer provides space for storing smaller utensils and also larger pots and pans. Even more convenient since the addition of the new ball-bearing carriage, the drawer rolls open effortlessly, though it may be carrying a heavy load of utensils.



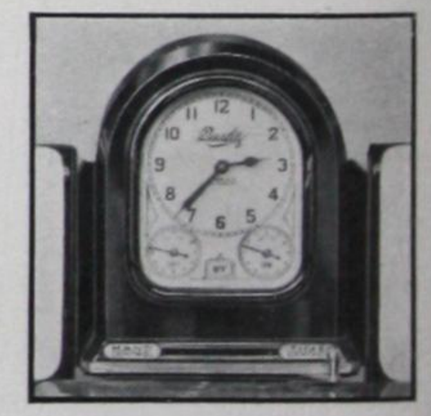


LARGE COOKING TOP • HINGED COVERALL

Plenty of room on the cooking top of one of these ranges. When range is not in use the hinged cover can be lowered. This provides extra table space. Will conveniently cover soiled top until time permits cleaning, keeping kitchen neat.

AUTOMATIC TIME CONTROL

Now, you can spend the afternoon hours far away from home, and return in the evening to a dinner that has been cooked perfectly in your absence. The Clock starts oven . . . dinner is cooked . . . then Clock reduces oven heat keeping dinner hot until served.





AUTOMATIC OVEN LIGHTING

No more matches to light the oven. With the Quality Safe-T-Oven Liter just turn on the oven key and the oven burner will automatically light. This is standard equipment on all Time Control Ranges.

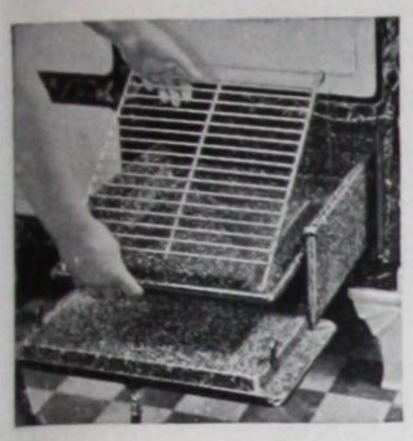
SPRING ROLLER OVEN DOOR CATCH

This small, polished roller, provided with a strong spring tension permits the oven door to open easily and smoothly at the slightest tug. The door closes just as smoothly and when closed is held snug and tight.



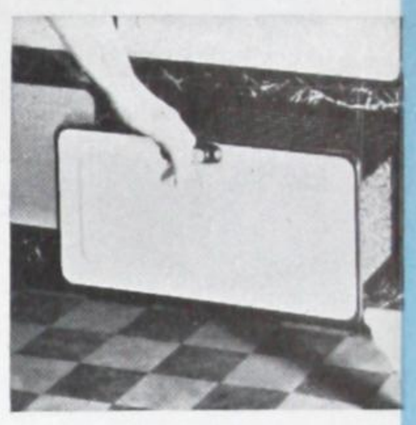
FEATURES OF *Quality* GAS RANGES

REG. U.S. PAT. OFF.



SMOKELESS BROILER PAN AND RACK

The raised center of the Quality Smokeless Broiler Pan drains fat away from flame, preventing fires. Deep trough around edge of pan is also wide enough to admit tablespoon, an aid in removal of fats and juices. Pan has double folded edge, no sharp corners. The Rack is rigidly made and fits firmly in pan.



CONVENIENT DRAWER BROILER

Strongly made drawer rolls easily out and in on ball bearings. Cannot fall out. It has smokeless pan and firm fitting removable rack. Pan drains fat away from flame. Prevents fires. Enamel linings are durable . . . easily cleaned.



REMOVABLE OVEN BOTTOM

The enamel bottom of a Quality Oven is made like a tray with raised edges. It can be easily removed for cleaning by merely pushing the bottom up from the broiler and then sliding it out through the oven door.



MODERN DESIGN OF FITTINGS

Quality gas ranges are designed from an artistic standpoint to harmonize with almost any surroundings in which they may be placed. They are thoroughly modern in treatment without being extreme, and from the neat pendant handles to the rich porcelain enamel color finishes good taste has been used.



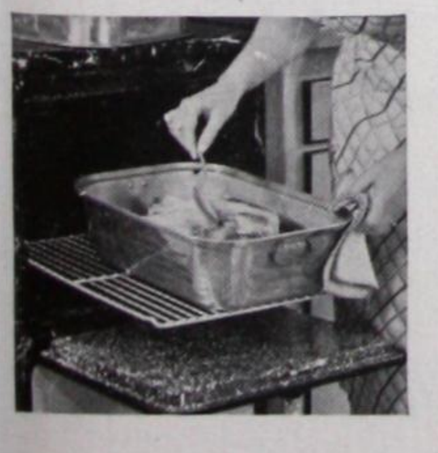
CONVENIENT TABLE TOP

When the hinged coverall is closed it provides considerable extra working space for preparing foods or mixing batter for baking. This is especially true of the table top model ranges, but this extra space is extremely handy on the console type ranges as well.



PICK-OFF GAS KEYS

These new streamlined gas keys can be taken off with a slight pull so that the manifold panel can be removed for making any necessary adjustments. The keys will snap on firmly again and will not turn on the shafts.



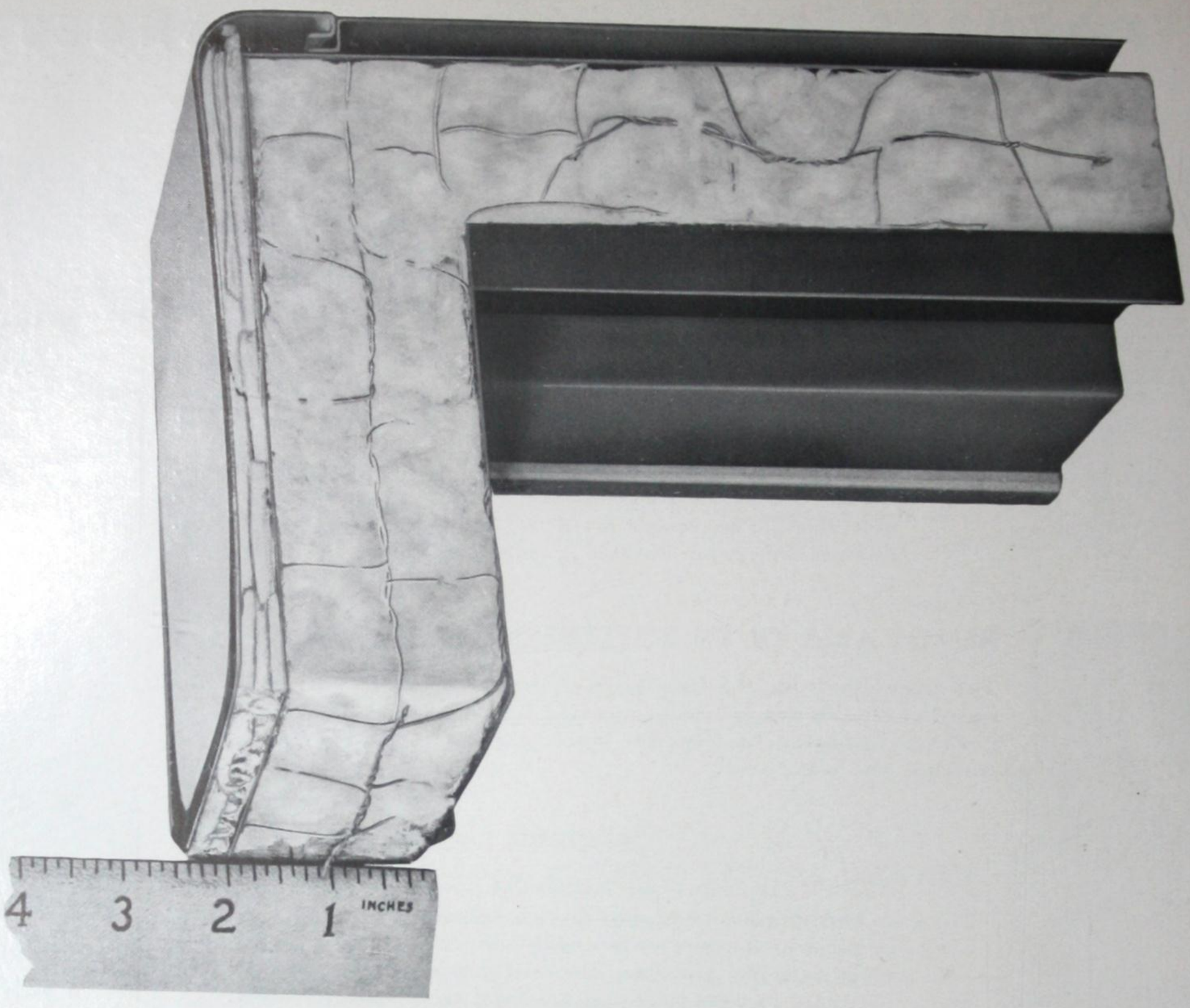
NON-TILT OVEN RACKS

These new non-tilting oven racks prevent the baking or the roast from sliding onto the kitchen floor. They are very rigid and will not slope or bend even though pulled out to the extreme limit of rack and heavily weighted.



CAST IRON FRAMEWORK

This construction has made Quality ranges famous for long service under the hardest usage. The door frames, also made of cast iron, fit perfectly and will not warp or sag during the life of the range.



Quality SUPER INSULATION

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The extra heavy insulation used in the construction of all *Quality* Ranges reduces heat loss to a minimum, saves gas, and maintains more comfortable kitchen temperatures. This is especially true in Super-Insulated models. A wall 1¾ inches thick, consisting of many pounds of rock wool, surrounds the oven and broiler. This insulating material is packed into a special steel inner body. Between this steel body and the outside enameled panels of the range a ¼ inch dead air space contributes still further insulating properties. The oven top has a ¼ inch layer of corrugated asbestos in addition to the rock wool.

Around the oven door opening of Super-Insulated ranges a special spring strip of Monel Metal is fitted. This seals the oven door when closed and prevents heat loss.

Quality REGULAR INSULATION

The regular type of insulation used in the construction of other Quality ranges consists of a layer of Band Rock, 1 inch thick, crimped to a special lining. A dead air space is provided in these models also, to increase the insulating effect. Insulation of *Quality* Ranges need not be disturbed when removing linings or replacing outside sheet metal parts.

No. 100
Gray and White

Gray Enamel Front Frame, Oven and Broiler Door Frames, Warming Closet Frame, Top Supports, Cooking Top, Canopy Support Edge, Finishing Strips and Legs. Balance of range White Enamel.



Quality
REG. U.S. PAT. OFF.
GAS RANGES

SERIES 100

THE RANGE ILLUSTRATED IS No. 100

EQUIPMENT: Full Enamel Finish • Two Baking Ovens • Super-Insulated Ovens and Broiler Construction • Oven Thermostat on both Baking Ovens • Enamel Oven and Broiler Linings • Ball-Bearing Drawer Broiler • Solid Type Enamel Quicktop with Polished Stainless Steel Rings around Grates • Black Enamel Grates • Six Red Enamel Round Quicktop Burners • Warming Closet and Canopy Shelf • Right or Left Hand Oven.

QUICKTOP RED BURNER
is standard equipment. Cooks faster...uses less gas. More durable . . . cast iron made in one piece. Drilled ports cannot vary in size.



ADDITIONAL INFORMATION
ON REVERSE SIDE OF PAGE



No. 101
Green and Ivory

Light Green Enamel Front Frame, Oven and Broiler Door Frames, Warming Closet Frame, Top Supports, Cooking Top, Canopy Support Edge, Finishing Strips and Legs. Balance of range Ivory Enamel.



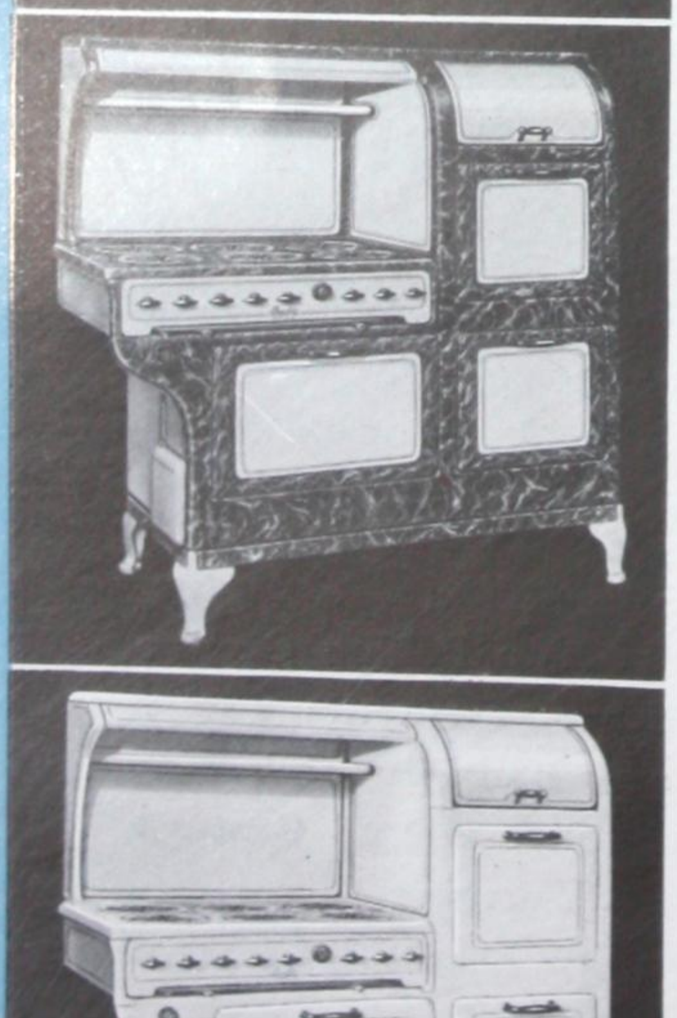
No. 102
All Ivory

All parts of range Ivory Enamel.



No. 103
Ivorytone

Dark Green Marbleized Enamel Front Frame, Warming Closet Frame, Top Supports, Cooking Top, Canopy Support Edge, Canopy Top and Finishing Strips. Balance of range Ivory Enamel.



No. 109
Ebonytone

Black Marbleized Enamel Front Frame, Oven and Broiler Door Frames, Warming Closet Frame, Top Supports, Cooking Top, Canopy Support Edge, Canopy Top and Finishing Strips. Balance of range White Enamel.



No. 116
All White

All parts of range White Enamel.

Quality
REG. U.S. PAT. OFF.
GAS RANGES

SERIES 100

DIMENSIONS

Overall Length	56 in.
Overall Depth	27 in.
Overall Height	59 in.
Height (Cooking Top)	36 in.
Cooking Top	33 x 23 in.
Upper Oven	16 x 18, 14 in.
Broiler	16 x 18, 14 in.
Lower Oven	22 x 18, 14 in.
Shipping Weight	830 lbs.

RANGE CAN BE EQUIPPED WITH



• • • **AUTOMATIC TIME CONTROL** on upper oven only. If desired add letter (A) to range number.

• • • **AUTOMATIC TIME CONTROL** on both ovens. If desired add letters (AA) to range number.

• • • **SAFE-T-TOP AND OVEN LITERS** for both ovens. If desired add letter (X) to range number.

• • • **SAFE-T-TOP LITER** only. If desired add letter (V) to range number.

• • • **TWO RUTZ-O-MATIC TOP LIGHTERS.** If desired add letter (Z) to range number.

• • • **RIGHT HAND OVEN.** If desired add letter (R) to range number.

• • • **LEFT HAND OVEN.** If desired add letter (L) to range number.

No. 816

All White

ll parts of range
/hite Enamel.



SERIES 600 and SERIES 800

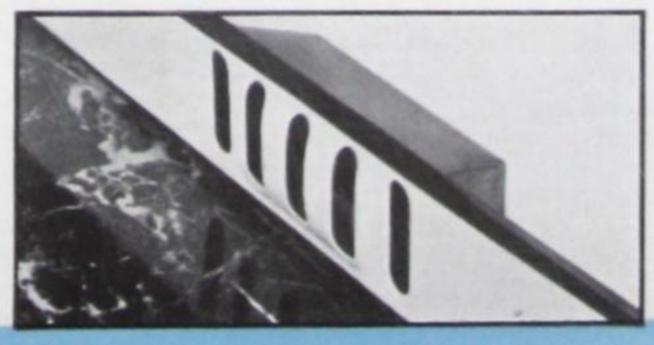
THE RANGE ILLUSTRATED IS No. 816

Quality
REG. U.S. PAT. OFF.
GAS RANGES

EQUIPMENT: Full Enamel Finish only • Super-Insulated Oven and Broiler • Oven Thermostat • Ball Bearing Drawer Broiler and Service Drawer • Solid Type Quicktop with Stainless Steel Rings around Grates • Black Enamel Grates • Four Red Enamel Round Quicktop Burners • Counter-balanced Hinged Coverall.

OVEN FLUE DIVERTER

Optional equipment. When range is desired with diverter add letter "F" to range number.



ADDITIONAL INFORMATION
ON REVERSE SIDE OF PAGE



No. 800
Gray and White

Gray Enamel Front Frame, Oven and Broiler Door Frames, Top Support, Cooking Top, Coverall Top, Finishing Strips and Legs. Balance of range White Enamel.



No. 801
Green and Ivory

Light Green Enamel Front Frame, Oven and Broiler Door Frames, Top Support, Cooking Top, Coverall Top, Finishing Strips and Legs. Balance of range Ivory Enamel.



No. 803
Ivorytone

Dark Green Marbleized Enamel Front Frame, Oven Top, Top Support, Cooking Top, Coverall Top and Finishing Strips. Balance of range Ivory Enamel.



No. 809
Ebonytone

Black Marbleized Enamel Front Frame, Oven and Broiler Door Frames, Oven Top, Top Support, Cooking Top, Coverall Top and Finishing Strips. Balance of range White Enamel.



No. 802
All Ivory

All parts of range Ivory Enamel.

Quality
REG. U.S. PAT. OFF.
GAS RANGES

SERIES 600 and SERIES 800

●

DIMENSIONS

	Series 600	Series 800
Overall Width	47 in.	45 in.
Overall Depth	28½ in.	28½ in.
Height (Top of Splasher Strip)	49½ in.	49½ in.
Height (Top of Oven)	45¾ in.	45¾ in.
Height (Hinged Cover Open)	58 in.	58 in.
Height (Top of Closed Hinged Cover)	37½ in.	37½ in.
Height (Cooking Top)	36 in.	36 in.
Cooking Top	22½ x 21½ in.	22½ x 21½ in.
Oven	18 x 20, 14 in.	16 x 20, 14 in.
Broiler Drawer	15¾ x 16½, 5 in.	13¾ x 16½, 5 in.
Shipping Weight	435 lbs.	420 lbs.

●

RANGE CAN BE EQUIPPED WITH



• • • **AUTOMATIC TIME CONTROL.** If desired add letter (A) to range number.

• • • **SAFE-T-TOP AND OVEN LITER.** If desired add letter (X) to range number.

• • • **SAFE-T-TOP LITER** only. If desired add letter (V) to range number.

• • • **RUTZ-O-MATIC TOP LIGHTER.** If desired add letter (Z) to range number.

• • • **RIGHT HAND OVEN.** If desired add letter (R) to range number.

• • • **LEFT HAND OVEN.** If desired add letter (L) to range number.

• • • **ENAMEL CABINET BASE.** If desired add letter (B) to range number.

No. 1509

Ebonytone

Black Marbleized Enamel Front Frame, Oven Top, Cooking Top, Coverall Top, Top Support and Finishing Strips. Balance of range White Enamel.



Quality

REG. U.S. PAT. OFF.

GAS RANGES

SERIES 1500

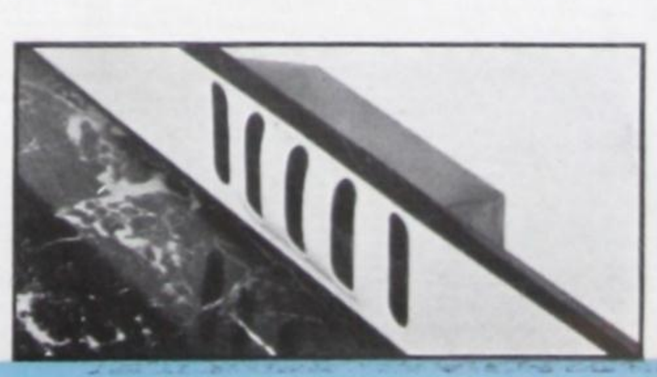
THE RANGE ILLUSTRATED IS No. 1509

EQUIPMENT: Full Enamel Finish • Oven Thermostat • Insulated Oven and Broiler • Ball Bearing Drawer Broiler and Service Drawers • Enamel Quicktop with Enamel Grates • Six Red Enamel Round Quicktop Burners • Counter-balanced Hinged Coverall • Right Hand Oven only • Rutzomatic Top Lighters.

ADDITIONAL INFORMATION
ON REVERSE SIDE OF PAGE

OVEN FLUE DIVERTER

Optional equipment. When range is desired with diverter add letter "F" to range number.





No. 1500
Gray and White

Gray Enamel Front Frame, Oven Top, Cooking Top, Coverall Top, Top Support, Finishing Strips and Legs. Balance of range White Enamel.



No. 1501
Green and Ivory

Light Green Enamel Front Frame, Oven Top, Cooking Top, Coverall Top, Top Support, Finishing Strips and Legs. Balance of Range Ivory Enamel.



No. 1502
All Ivory

All parts of range Ivory Enamel.



No. 1503
Ivorytone

Dark Green Marbleized Enamel Front Frame, Oven Top, Cooking Top, Coverall Top, Top Support and Finishing Strips. Balance of range Ivory Enamel.



No. 1516
All White

All parts of range White Enamel.

Quality
REG. U.S. PAT. OFF.
GAS RANGES

SERIES 1500

DIMENSIONS

Overall Width	49¼ in.
Overall Depth	25 in.
Height (Top of Splasher Strip)	40½ in.
Height (Top of Oven)	36¾ in.
Height (Hinged Cover Open)	59 in.
Cooking Top	29½x22½ in.
Oven	16x20, 14 in.
Broiler Drawer	13¾x16½, 5 in.
Shipping Weight	440 lbs.

RANGE CAN BE EQUIPPED WITH



• • • AUTOMATIC TIME CONTROL. If desired add letter (A) to range number.

• • • SAFE-T-TOP AND OVEN LITER. If desired add letter (X) to range number.

• • • SAFE-T-TOP LITER only. If desired add letter (V) to range number.

• • • RUTZ-O-MATIC TOP LIGHTER. If desired add letter (Z) to range number.

No. 1619

Ebonytan

Black Marbleized Enamel Front Frame, Oven Top, Cooking Top, Coverall Top, Top Support and Finishing Strips. Balance of range Ivory Enamel.



Quality

REG. U.S. PAT. OFF.

GAS RANGES

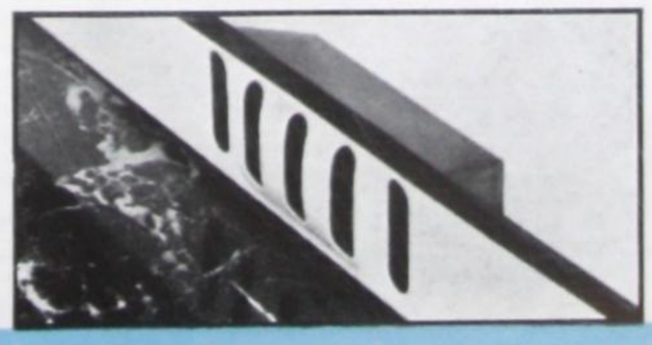
SERIES 1600

THE RANGE ILLUSTRATED IS No. 1619

EQUIPMENT: Full Enamel Finish • Oven Thermostat • Insulated Oven and Broiler • Ball Bearing Drawer Broiler and Service Drawers • Enamel Quicktop with Enamel Grates • Four Red Enamel Round Quicktop Burners • Counter-balanced Hinged Coverall • Right Hand Oven only • Rutzomatic Top Lighter.

OVEN FLUE DIVERTER

Optional equipment. When range is desired with diverter add letter "F" to range number.

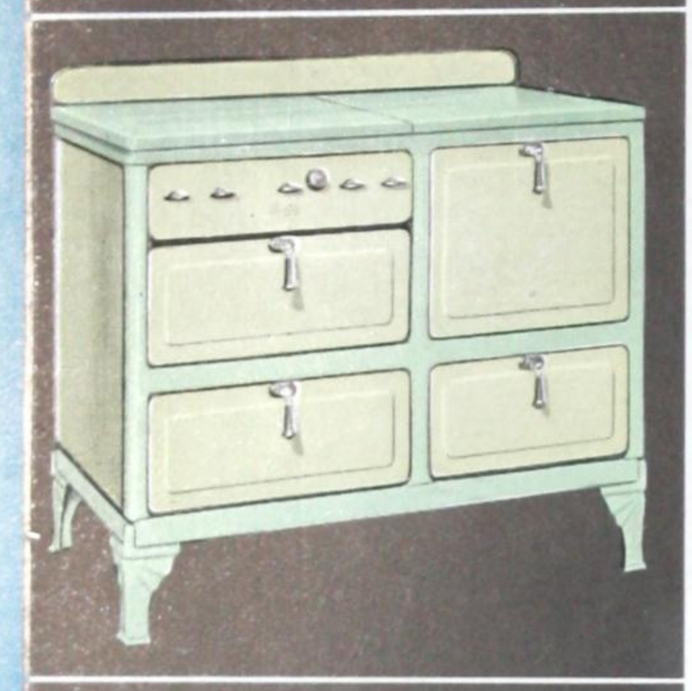


ADDITIONAL INFORMATION
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No. 1600
Gray and White

Gray Enamel Front Frame, Oven Top, Cooking Top, Coverall Top, Top Support, Finishing Strips and Legs. Balance of range White Enamel.



No. 1601
Green and Ivory

Light Green Enamel Front Frame, Oven Top, Cooking Top, Coverall Top, Top Support, Finishing Strips and Legs. Balance of range Ivory Enamel.



No. 1602
All Ivory

All parts of range Ivory Enamel.



No. 1603
Ivorytone

Dark Green Marbleized Enamel Front Frame, Oven Top, Cooking Top, Coverall Top, Top Support and Finishing Strips. Balance of range Ivory Enamel.



No. 1609
Ebonytone

Black Marbleized Enamel Front Frame, Oven Top, Cooking Top, Coverall Top, Top Support and Finishing Strips. Balance of range White Enamel.

Quality
REG. U.S. PAT. OFF.
GAS RANGES

SERIES 1600

DIMENSIONS

Overall Width	42 in.
Overall Depth	25 in.
Height (Top of Splasher Strip)	40½ in.
Height (Top of Oven)	36¾ in.
Height (Hinged Cover Open)	59 in.
Cooking Top	22½x22½ in.
Oven	16x20, 14 in.
Broiler Drawer	13¾x16½, 5 in.
Shipping Weight	400 lbs.

RANGE CAN BE EQUIPPED WITH



• • • **AUTOMATIC TIME CONTROL.** If desired add letter (A) to range number.

• • • **SAFE-T-TOP AND OVEN LITER.** If desired add letter (X) to range number.

• • • **SAFE-T-TOP LITER** only. If desired add letter (V) to range number.

• • • **RUTZ-O-MATIC TOP LIGHTER.** If desired add letter (Z) to range number.

No. 1703

Ivorytone

Dark Green Marbleized Enamel Front Frame, Oven Top, Cooking Top, Coverall Top, Top Support and Finishing Strips. Balance of range Ivory Enamel.



Quality

REG. U.S. PAT. OFF.

GAS RANGES

SERIES 1700 • SERIES 1800 • SERIES 1900

THE RANGE ILLUSTRATED IS No. 1703

EQUIPMENT: Full Enamel Finish • Ball Bearing Drawer Broiler • Enamel Quicktop • Black Enamel Grates and Four Red Enamel Round Quicktop Burners • Series 1800 and 1900 have Black Japan Grates and Four Black Japan Round Quicktop Burners • Hinged Coverall • Right Hand Oven only • Rutzomatic Top Lighter.

OVEN FLUE DIVERTER

Optional equipment. When range is desired with diverter add letter "F" to range number.



ADDITIONAL INFORMATION
ON REVERSE SIDE OF PAGE



No. 1700
Gray and White

Gray Enamel Front Frame, Oven Top, Cooking Top, Coverall Top, Top Support, Finishing Strips and Legs. Balance of range White Enamel.



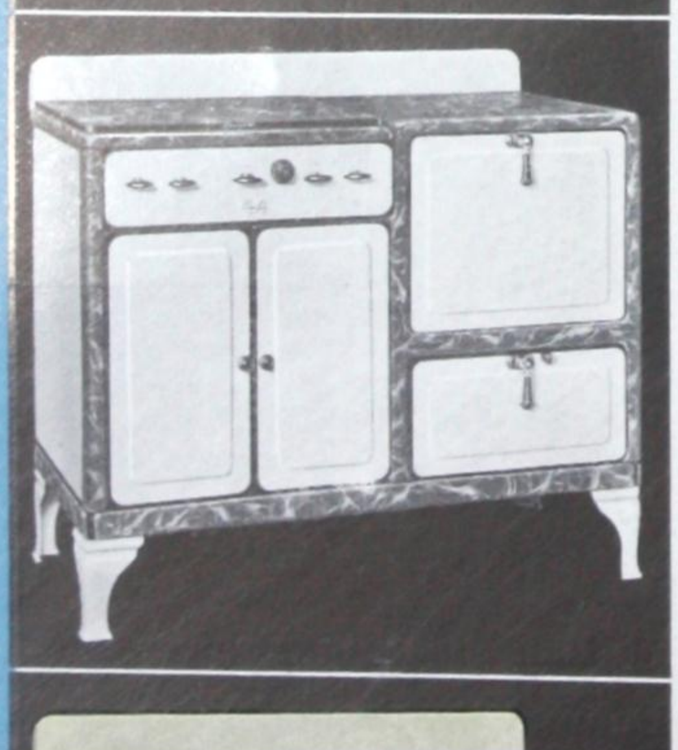
No. 1701
Green and Ivory

Light Green Enamel Front Frame, Oven Top, Cooking Top, Coverall Top, Top Support, Finishing Strips and Legs. Balance of range Ivory Enamel.



No. 1702
All Ivory

All parts of range Ivory Enamel.



No. 1709
Ebonytone

Black Marbleized Enamel Front Frame, Oven Top, Cooking Top, Coverall Top, Top Support and Finishing Strips. Balance of range White Enamel.



No. 1719
Ebonytan

Black Marbleized Enamel Front Frame, Oven Top, Cooking Top, Coverall Top, Top Support and Finishing Strips. Balance of range Ivory Enamel.

Quality
REG. U.S. PAT. OFF.

GAS RANGES

SERIES 1700
SERIES 1800
SERIES 1900

●

DIMENSIONS

	Series 1700	Series 1800	Series 1900
Overall Length	42½ in.	40 in.	38 in.
Overall Depth	25½ in.	25½ in.	25½ in.
Height (Top of Splasher)	39 in.	39 in.	39 in.
Height (Top of Oven)	35½ in.	35½ in.	35½ in.
Height (Cover Open)	56 in.	56 in.	56 in.
Cooking Top	21¾ x 20½ in.	19¼ x 20½ in.	19¼ x 20½ in.
Oven	16 x 18, 14 in.	16 x 18, 14 in.	14 x 18, 14 in.
Broiler Drawer	13¾x16½, 5 in.	13¾x16½, 5 in.	11¾x16½, 5 in.
Shipping Weight	320 lbs.	310 lbs.	295 lbs.

●

RANGE CAN BE EQUIPPED WITH

• • • INSULATION AND OVEN THERMOSTAT. If desired add letters (ST) to range number.



• • • AUTOMATIC TIME CONTROL. If desired add letter (A) to range number. Cannot be furnished unless range has Insulation and Oven Thermostat.★

• • • SAFE-T-TOP AND OVEN LITER. If desired add letter (X). When Automatic Time Control is specified this lighting equipment is furnished as standard and letter (X) may be omitted.★

• • • SAFE-T-TOP LITER only. If desired add letter (V) to range number.★

• • • RUTZ-O-MATIC TOP LIGHTER. If desired add letter (Z) to range number.

★**SERIES 1900** CANNOT BE SUPPLIED WITH THIS EQUIPMENT.

No. 3202

All Ivory

ll parts of range
vory Enamel.



Quality
REG. U.S. PAT. OFF.
GAS RANGES

SERIES 3000 and SERIES 3200

THE RANGE ILLUSTRATED IS No. 3202

EQUIPMENT: Ball Bearing Drawer Broiler and Service Drawer • Enamel Quicktop • Black Japan Top Grates • Four Round Black Japan Top Burners • Right or Left Hand Oven • Rutzomatic Top Lighter.

OVEN FLUE DIVERTER

Optional equipment. When range is desired with diverter add letter "F" to range number.

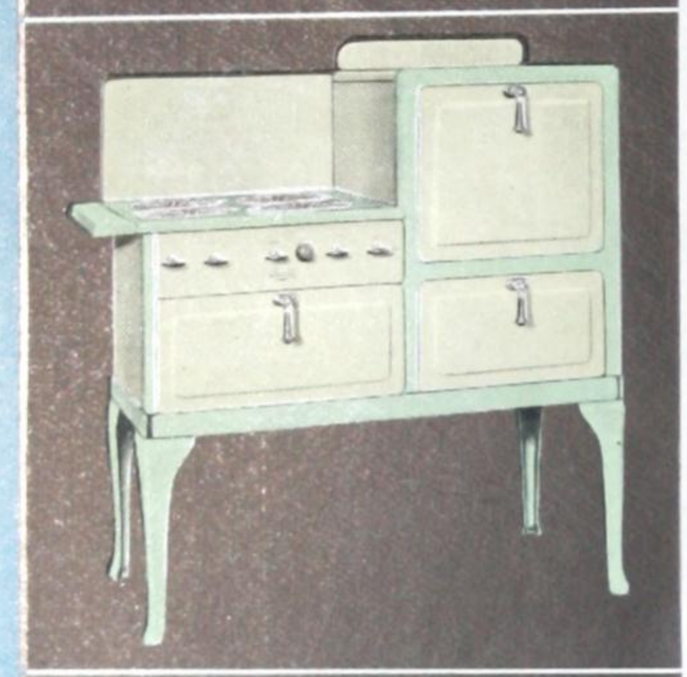


ADDITIONAL INFORMATION
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No. 3200
Gray and White

Gray Enamel Front Frame, Top Support, Cooking Top, End Shelf, Finishing Strips and Legs. Balance of range White Enamel.



No. 3201
Green and Ivory

Light Green Enamel Front Frame, Top Support, Cooking Top, End Shelf, Finishing Strips and Legs. Balance of range Ivory Enamel.



No. 3203
Ivorytone

Dark Green Marbleized Enamel Front Frame, Oven Top, Top Support, Cooking Top, End Shelf and Finishing Strips. Balance of range Ivory Enamel.



No. 3209
Ebonytone

Black Marbleized Enamel Front Frame, Oven Top, Top Support, Cooking Top, End Shelf and Finishing Strips. Balance of range Ivory Enamel.



No. 3216
All White

All parts of range White Enamel.

Quality
REG. U.S. PAT. OFF.
GAS RANGES

SERIES 3000 and SERIES 3200

●

DIMENSIONS

	Series 3000	Series 3200
Overall Width (with End Shelf)	46½ in.	44½ in.
Overall Width (less End Shelf)	44 in.	42 in.
Overall Depth	25 in.	25 in.
Height (Top of Splasher Strip)	48 in.	48 in.
Height (Top of Oven)	45 in.	45 in.
Height (Hinged Cover Open)	55 in.	55 in.
Height of Cooking Top	34 in.	34 in.
Cooking Top	21½ x 20½ in.	21½ x 20½ in.
Oven	18 x 18, 14 in.	16 x 18, 14 in.
Broiler	15¾ x 16½, 5 in.	13¾ x 16½, 5 in.
Shipping Weight	375 lbs.	325 lbs.

●

RANGE CAN BE EQUIPPED WITH



• • • AUTOMATIC TIME CONTROL. If desired add letter "A" to range number.

• • • RED ENAMEL ROUND QUICKTOP BURNERS. When range is equipped with Time Control these are included.

• • • SAFE-T-TOP AND OVEN LITER. If desired add letter "X" to range number.

• • • SAFE-T-TOP LITER only. If desired add letter "V" to range number.

• • • ENAMEL CABINET BASE. If desired add letter "B" to range number.

• • • HINGED COVERALL. If desired add letter "J" to range number.

• • • INSULATED OVEN AND BROILER. If desired add letter "S" to range number.

• • • FULL ENAMEL FINISH. If desired add letter "E" to range number.

• • • THREE QUARTER ENAMEL FINISH. If desired add letters "HE" to range number.

• • • OVEN THERMOSTAT. If desired add letter "T" to range number.

No. 9001
Green and Ivory

Ivory Enamel Oven Side, Oven Door, Manifold Panel, High Shelf and Plate Shelf. Balance of range Light Green Enamel.



Quality
REG. U.S. PAT. OFF.
GAS RANGES

SERIES 9000

HIGH SHELF (AS SHOWN) ADDITIONAL EQUIPMENT

THE RANGE ILLUSTRATED IS No. 9001

EQUIPMENT: Insulated Oven and Broiler • Oven Thermostat • Enamel Oven Linings • Black Enamel Quicktop with Black Enamel Grates • Four Red Enamel Round Quicktop Burners • Triplex Grates in Fire Box • Right Hand Oven only • Rutzomatic Top Lighter.

QUICKTOP RED BURNER
is standard equipment. Cooks faster...uses less gas. More durable . . . cast iron made in one piece. Drilled ports cannot vary in size.



ADDITIONAL INFORMATION
ON REVERSE SIDE OF PAGE



No. 9000
Gray and White

White Enamel Oven Side, Oven Door, Manifold Panel, High Shelf and Plate Shelf. Balance of range Gray Enamel.



No. 9002
All Ivory

All parts of range Ivory Enamel.



No. 9003
Ivorytone

Ivory Enamel Oven Side, Oven Door, Manifold Panel, High Shelf, Plate Shelf and Legs. Balance of range Dark Green Marbleized Enamel.



No. 9009
Ebonytone

White Enamel Oven Side, Oven Door, High Shelf, Plate Shelf, Manifold Panel and Legs. Balance of range Black Marbleized Enamel.



No. 9019
Ebonytan

Ivory Enamel Oven Side, Oven Door, High Shelf, Plate Shelf, Manifold Panel and Legs. Balance of range Black Marbleized Enamel.

Quality
REG. U.S. PAT. OFF.
GAS RANGES

SERIES 9000

DIMENSIONS

Overall Length	35½ in.
Overall Depth	28½ in.
Height with High Shelf	55 in.
Height of Cooking Top	35½ in.
Cooking Top	35 x 21½ in.
Oven	18 x 18, 14 in.
Fire Box	17¾ x 7¾ in.
Shipping Weight	490 lbs.

RANGE CAN BE EQUIPPED WITH



• • • **AUTOMATIC TIME CONTROL.** If desired add letter (A) to range number.

• • • **FULL ENAMEL FINISH.** If desired add letter (E) to range number.

• • • **HIGH SHELF.** If desired add letters (HS) to range number.

• • • **SAFE-T-TOP LITER.** If desired add letter (V) to range number.

• • • **SAFE-T-TOP AND OVEN LITER.** If desired add letter (X) to range number.

• • • **SAFE-T-TOP OVEN AND BROILER LITER.** If desired add letter (U) to range number.

• • • **RUTZ-O-MATIC TOP LIGHTER.** If desired add letter (Z) to range number.

SERIES 9300

with kitchen heater section cut away showing burner lighted and cast iron radiator construction.



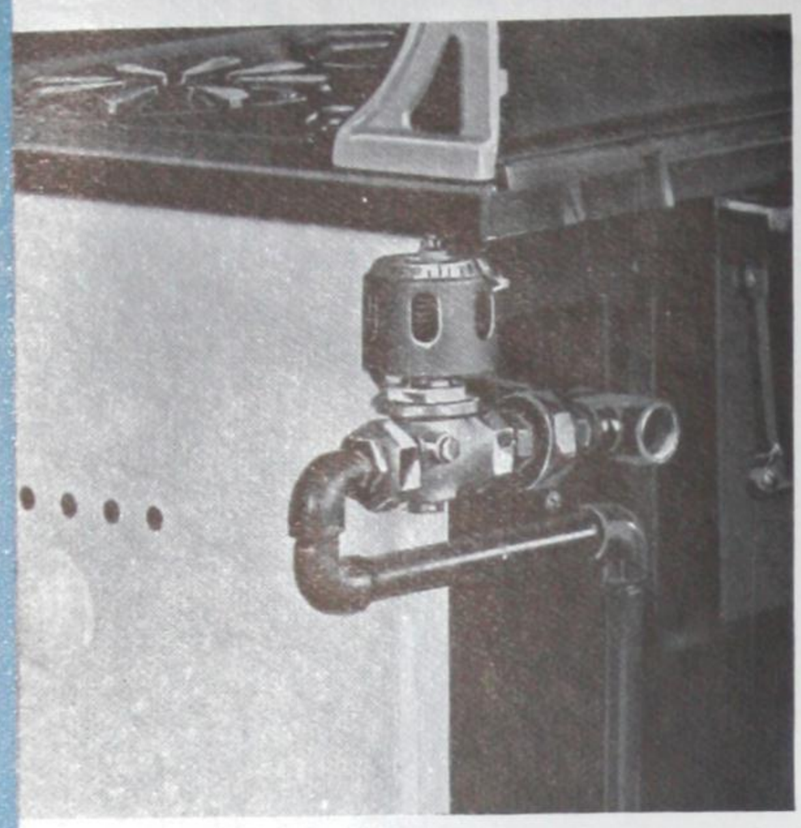
FEATURES OF NEW *Quality* SERIES 9300 ALL GAS ALL SEASON RANGE WITH GAS KITCHEN HEATER

REG. U.S. PAT. OFF.

This new *Quality* combination range utilizes the advantages of gas, not alone for top cooking and oven baking, but also for automatically controlled space heating.

The All Gas, All Season Range maintains a uniform, comfortable temperature throughout all seasons of the year. During the cooler months, the automatically controlled, gas heating section of the range keeps the kitchen at exactly the temperature desired. It requires no watching, and the labor and dirt connected with coal, oil or wood fires are completely dispensed with. Throughout the warmer months the gas cooking section of the range eliminates the excess heat that is present when a coal fire is used for cooking. The top burners are only lighted when actually in use, and the heavy insulation prevents oven heat from increasing the kitchen temperature.

THE ROOM THERMOSTAT



The thermostat is conveniently but unobtrusively located at the back of the range. You simply set the dial to the room temperature desired. When this temperature is reached, the burner flame is automatically reduced. A slight drop in temperature causes burner flame to increase. A constant temperature is thus automatically maintained.

Top cooking will not overheat the kitchen, as the thermostat will operate the burner less frequently. In case no one is to be at home for any length of time during cool weather, the thermostat can be set at a minimum temperature. This will keep the chill out of the kitchen, and save fuel. An instant supply of heat is then at hand when the family returns.

CAST IRON RADIATOR



The heat produced by the burner is circulated through baffles on the inside of the well designed radiator. This radiator is made entirely of cast iron. It is rust resisting and should last a lifetime. The zig-zag shell of the radiator together with the fins cast on its surface furnish a maximum amount of radiation. A grating in the outer enamel side panel of the range allows proper circulation of the heated air throughout the kitchen.

E-Z-LITE AUTOMATIC BURNER

The room heater burner is located in the lower part of the heating section of the range. It is a well made, efficient type of burner, and furnishes a plentiful supply of clean gas heat. The burner tube has a double row of ports drilled in its upper surface and running about two-thirds the length of the tube.

The new low rates for gas heating which the gas companies have either already established or have pending, make it as economical to heat the kitchen with gas, using this new range, as with any other fuel. The average monthly fuel cost is the same.

Quality GAS RANGES

REG. U.S. PAT. OFF.

FOR USE WITH

LIQUEFIED PETROLEUM GASES

In addition to supplying ranges for use with manufactured and natural gas they are being equipped for the various bottled and liquefied petroleum gases. Specifications of the manufacturers of the different gases are carefully followed in adapting *Quality* Ranges for use with each particular brand of gas.

Whenever possible we have submitted sample ranges, properly equipped, to the manufacturers of each particular gas for test and approval. We have been glad to co-operate with them and, as a result of following their suggestions and specifications, are able to furnish ranges which are built to burn liquefied petroleum gases correctly and efficiently. In supplying ranges for bottled gas we equip them so that they can be converted to burn manufactured or natural gas if desired with a minimum of trouble and expense.

When ordering ranges for use with bottled gas specify clearly the name of gas being used so that range will be properly equipped for use with that particular gas.

HOW TO IDENTIFY

***Quality* Gas Ranges may be identified by the trade mark**

Quality

REG. U.S. PAT. OFF.

which appears on the gas key panel of every *Quality* Range.

ROBERTS & MANDER STOVE COMPANY · PHILADELPHIA

Quality Gas Ranges are designed and manufactured by the Roberts & Mander Stove Company of Philadelphia, Pa., and are tested and approved by the testing laboratory of the American Gas Association. There are over one million *Quality* Gas Ranges in use today in homes, apartments, churches, hotels, and restaurants.

Quality Gas Ranges

Quality Gas Ranges are sold by Gas Companies, Appliance Dealers and Plumbers. There is a dealer in your neighborhood who will be glad to serve you.

BE SURE TO HAVE YOUR ARCHITECT OR BUILDER SPECIFY A *Quality* GAS RANGE

ROBERTS & MANDER STOVE CO.
Philadelphia, Pa.

Please have your nearest *Quality* Gas Range Dealer get in touch with us at once.

_____

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If you do not know a *Quality* dealer cut out this coupon and forward to the

Roberts & Mander Stove Co.

Philadelphia, Pa.

ROLSCREEN
COMPANY

In Behalf of

BEAUTIFUL WINDOWS



The Rolscreen Company, virile and rugged from its ten years of development of *Rolscreens* of Pella, eager in its youthful ambition to hold its stride during a rapidly changing era of new conceptions of convenient living, presents this book for the guidance of builders of homes in eliminating insect screen nuisances and in designing beauty into windows

☆

ROLSCREEN COMPANY

101 MAIN STREET . . . PELLA, IOWA



In Behalf of

BEAUTIFUL WINDOWS

It is our desire by this book to create a consciousness of beautiful window effects as they may be conserved by the use of Rolscreens. Too often is the beauty and dignity of attractive windows completely hidden by thoughtlessly installing inartistic window screens



Rolscreened Stone Bay Windows in the House of
Mr. James W. Hubbell, Des Moines

NO LOVELIER EXAMPLE OF FINE SCREENING

Not by elaborate display but by careful concealment do we convey the realization that classic window beauty need not be marred by insect screens. These windows are screened with Rolscreens, but you'd hardly know it. The screens do not interfere with easy access to window operators and do not intrude on the charming atmosphere of casements simply and artistically draped



Tinsley, McBroom & Higgins,
Architects, Des Moines

ROLSCREENS ARE INCONSPICUOUS

Windows are the sun-shrines of your home. They should breathe hospitality and good cheer to the guest as well as to the passerby. Screens of course are necessary for protection against insects and as protection for drapes, but they need not obscure, they need not be clumsy and they need not be a nuisance. Use Rolscreens . . . they are a delightful solution to screening problems



Rolscreened House of Mrs. Freda Maytag Sparey
Colorado Springs

Mr. J. B. Benedict, Denver
Architect



ALL TYPES OF WINDOWS

Rolscreens are adaptable to all types of windows in either new or old homes. They can be installed without special cutting or fitting



DELIGHTFULLY CONVENIENT

Rolscreens roll up and down like a window shade . . . there when you want them, out of the way on a hidden roller when you don't. They eliminate all of the bother of old-fashioned, unsightly flat frame type screens which are always over the window whether you need them or not, cutting out 20% of the light and ventilating area and spoiling the beauty of your windows and drapes



APPEALING . . ROLSCREENS DO NOT INTRUDE

A colonial window . . . screened by Rolscreen! How engaging is the beauty of a fine colonial window with white muntins clearly defining symmetrical panes of clear sparkling glass. How completely would this beauty be blotted out by framed screens and blurring screen cloth. Rolscreens are installed on the inside where they are conveniently accessible, stay clean and last long

ROLSCREENS CONSERVE WINDOW BEAUTY

A considerable amount of the money you have appropriated for your new home will be spent almost solely toward beautifying effects. You would probably be astounded if you knew the exact amount . . . Cornices, bays, set-backs, arches, pillars, blinds, dormers . . . to relieve the monotony of the square and cube. An artistic roof, colorful trims, paneled doors, graceful windows . . . to please the eye and make it distinctively your home.



Yet how easy it is to inject a "sour" note; to upset the whole artistic scheme with ordinary, outside - hung, wide - framed screens! Rolscreens of Pella obviate all that. Installed on the inside, they are so unobtrusive, you scarcely realize they're there. No cumbersomeness! No marred window effects! No encroachment on light area!

Consider, too, the other amazing features:

ROLSCREENS ROLL UP AND DOWN AS EASILY AS A WINDOW SHADE

A thumb's touch, and they roll up through guides you hardly see and onto a spring roller you don't see at all. They're there when you want them; out of the way and sight when you don't.

Rolscreens need not be taken out for access to flower boxes or for window washing. In fact, they need never be taken down. They're permanent! They require no storing, no messy dusting, painting, repairing, matching and putting up each spring.

Rolscreens do not collect dirt . . . to be beaten against panes by rain or to soil delicate breeze-blown drapes . . . but clean themselves each time they're rolled.

When you plan your home . . . plan your windows also. They are the "eyes" that will give your home life, beauty, stateliness! Banish those daily inconveniences and that twice a year drudgery which old-fashioned screens impose. Give yourself the economy of screens that will probably last for the remainder of your life . . . ROLSCREEN your windows. But, be sure your ROLSCREENS are the genuine Pella-made. Their fifteen patented features and ten years of successful history are assurance of satisfaction-giving to a degree no other rolling screen can offer.



Rolscreened House of
The Misses Boteler Guilford, Baltimore

Mr. Harold Appleton Stilwell
Baltimore — Architect

ROLSCREENS WITH DOUBLE HUNG WINDOWS

When selecting your window screens, insist that they meet these simple specifications: no taking down or putting up for storing or window washing; no screen over the window when it is closed; no rain beating through dirty screens onto clean window panes; permanently insect tight at the sides as well as top and bottom; and concealed so as not to detract from window appearance



CONVENIENT

We should recognize the truth . . . frame screens are ugly and inconvenient. They have no place in modern, well designed homes. Careless screening has stolen the beauty and convenience of too many fine windows. ROLSCREENS are the solution. They are the perfect companion of fine windows in fine homes . . . inconspicuous, convenient and thoroughly practical.

Unless you have already seen genuine ROLSCREENS of Pella or are acquainted with them, you would never dream that such unusual improvements in screens were possible. Proud is the woman who can show her friends her ROLSCREENS. Enthusiastically she tells of their many superiorities over the old-fashioned flat type screen.

Consider the convenience of ROLSCREENS of Pella . . . they need not be taken out for access to flower boxes or for window washing; they require no storing; no troublesome matching and putting up in the spring; no irksome taking down in the fall; no messy annual dusting, painting and repairing. ROLSCREENS give you all these advantages with any size or type of window

PERMANENT

ROLSCREENS are permanent. They are guaranteed for ten years. They incorporate fourteen exclusive patented features. ROLSCREENS do not sag or bag because the screen wire is firmly locked in at the sides by guides which grip small lugs inserted in the edges of the wire cloth. ROLSCREENS are insect tight because they're locked in on all four sides . . . no gapping edges even after long hard service. An accidental blow does not damage the screen wire . . . it merely disengages the lugs from the guides and rolling up the screen instantly replaces them. The guides operate smoothly . . . there's no binding or sticking. Another feature is the full floating roller . . . it eliminates all wear on the screen cloth as it rolls and unrolls from the roller. ROLSCREENS will not rust or break into holes, being made of special Electro-plated, clean, clear-vision "AluminA" wire cloth, with reinforced selvages. It will far outlive the guarantee. You can secure all of these features only by insisting on Pella-made ROLSCREENS



THIS NUISANCE ENDS WITH ROLSCREENS

Gracious living demands that window design and decorative effects be in good taste and that petty nuisances be eliminated. How annoying it is to have the draperies mussed and torn in trying to remove frame screens . . . not only is it annoying . . . but expensive too. Draperies haven't much chance of remaining clean, unmussed or untorn where ordinary window screens are used. So consider your drapes when you choose your screens. Plans for your window treatment may be completely upset by carelessness in selecting your window screens. With ROLSCREENS of Pella you are not in the least restricted as to the design of drapes or their fabrics





SECURE

ROLSCREENS of Pella make your windows secure when open and make them safe against intrusion. When ROLSCREENS are pulled down, they automatically lock on the inside. A touch of the finger unlatches them and they roll up easily like a window shade. They're there for service day and night, fall and winter, spring and summer; whether for insect protection, for preventing drapes from blowing out, or for making open windows safe both from the inside and the outside. There are no gapping edges, no bad fitting, there is no sticking and no binding. What a sense of satisfaction there is in having the security of such screens . . . completely locked in at both sides as well as at top and bottom. Only in ROLSCREENS of Pella can you get all these features

FLAT FRAMED SCREENS SHOULD BE "OUT"!

American Architecture has improved wonderfully during the past twenty years. We no longer find the hideous porches, "ginger-bread" porticoes, fancy balustrades, elaborate gable decorations and huge, badly proportioned windows. The home of today is designed for simple dignity, utility and convenience and in a style that will be good for generations. Sad to say, we have not become conscious of the ugliness of flat framed screens. Careless screening has stolen the beauty of too many windows. Your architect will approve Rolscreens of Pella . . . they will conserve the beauty which he so carefully designs into your windows





What Wouldn't You Give To Be Spared This

Screens stored in the basement or attic must be lugged out, washed off, repaired and painted. Then starts the "Chinese Puzzle" that calls for real "technique" in fitting screens that are just too long or just too wide while balancing on a ladder or hanging out of a window



What a Nuisance!

Quite often spring and "fly-time" is ahead of schedule. Frame screens have a habit of always being put up too late and taken down too soon. Rolscreens are ready for instant use any day and any season, there when you want them, out of the way when you don't. Insist on Pella-made ROLSCREENS . . . the standard of window-screen comparison





COMPARE THE CONVENIENCE

Flower boxes and awnings are conveniently accessible when your windows are equipped with ROLSCREENS

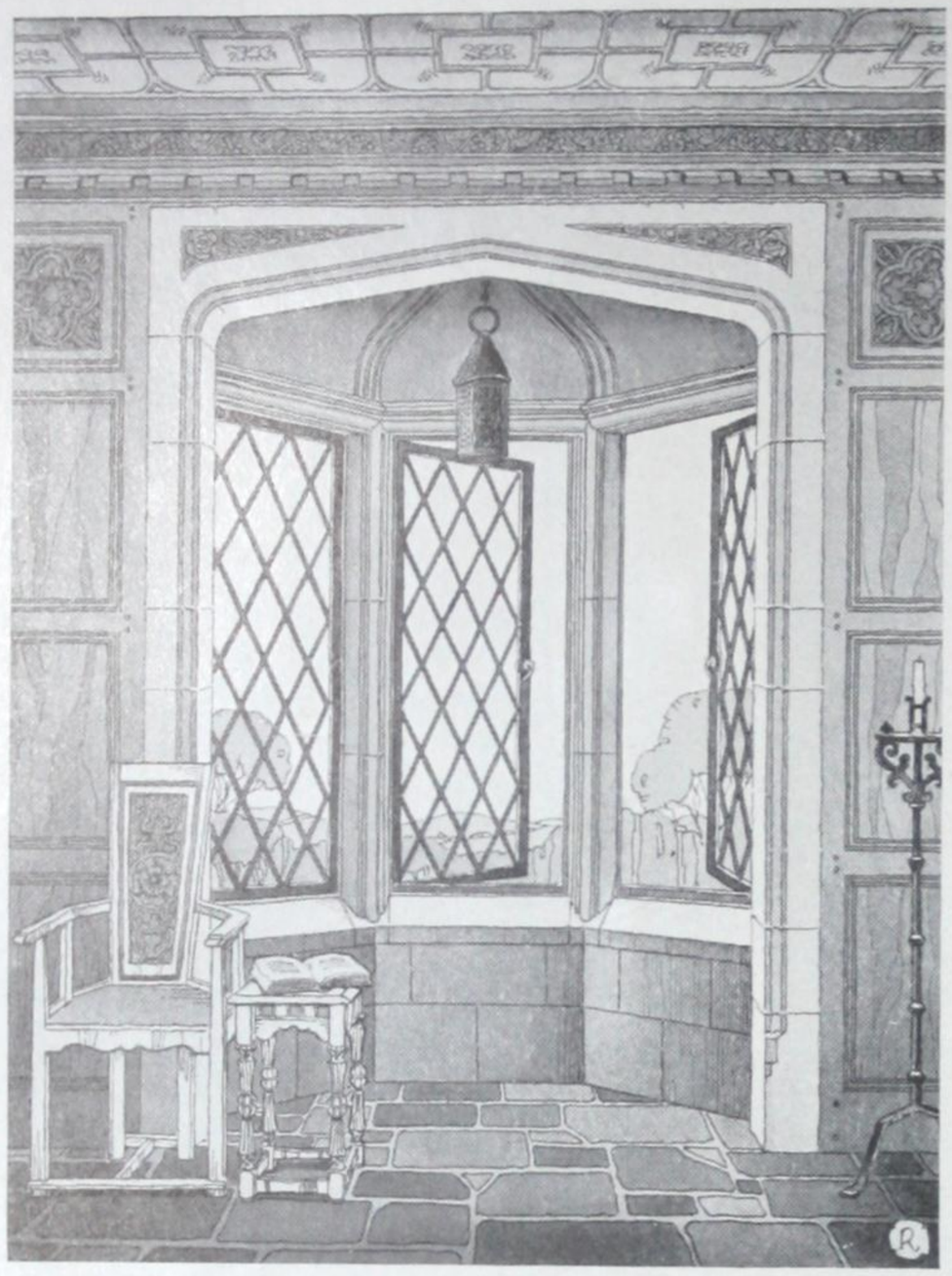


COMPARE THE APPEARANCE

Beautiful windows can't look their best when frame screens are up. The clearly defined lines of the window panes are completely blotted out. Notice how ordinary flat screens blur the vision and obstruct the light. What a bother frame screens are! Always in the way for window washing and cleaning tasks



FOR ANY STYLE OF ARCHITECTURE





Since the beginning of its activities the Rolscreen Company has concentrated exclusively on the designing and building of ROLSCREENS to meet the requirements of all styles of architecture and all types of windows. Its work has been that of assisting architects and home owners in screening their windows efficiently and conveniently without in any way detracting from exterior or interior window beauty. So thoughtfully have ROLSCREENS of Pella been engineered that they permit complete window freedom and do not intrude or interfere with any desired draping arrangement. You can't get effects such as these with ordinary screens. Hundreds of special detailing suggestions are available. ROLSCREENS are sold with a 10-year guarantee and with the sincere pledge that each ROLSCREEN user must be satisfied.

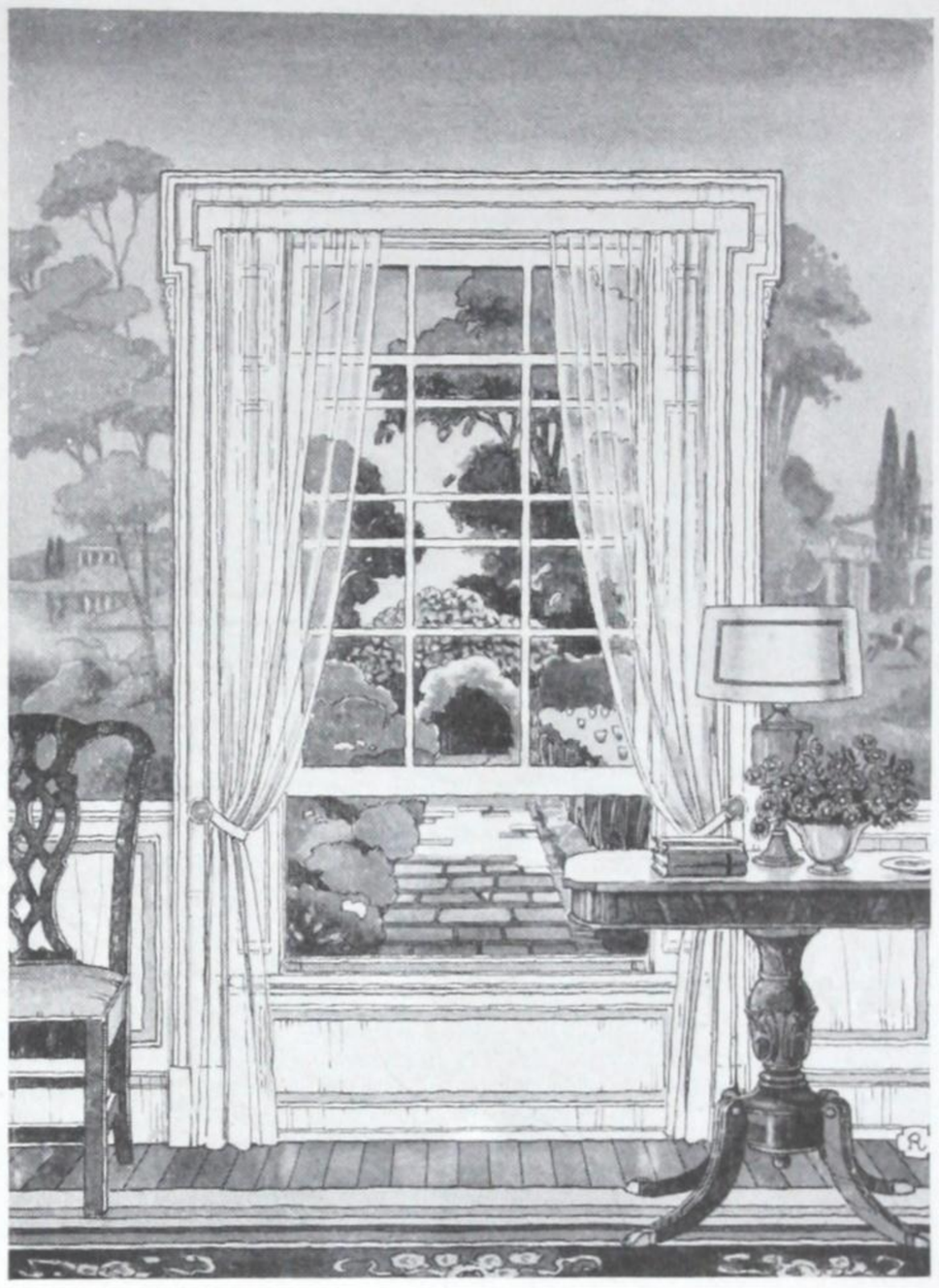


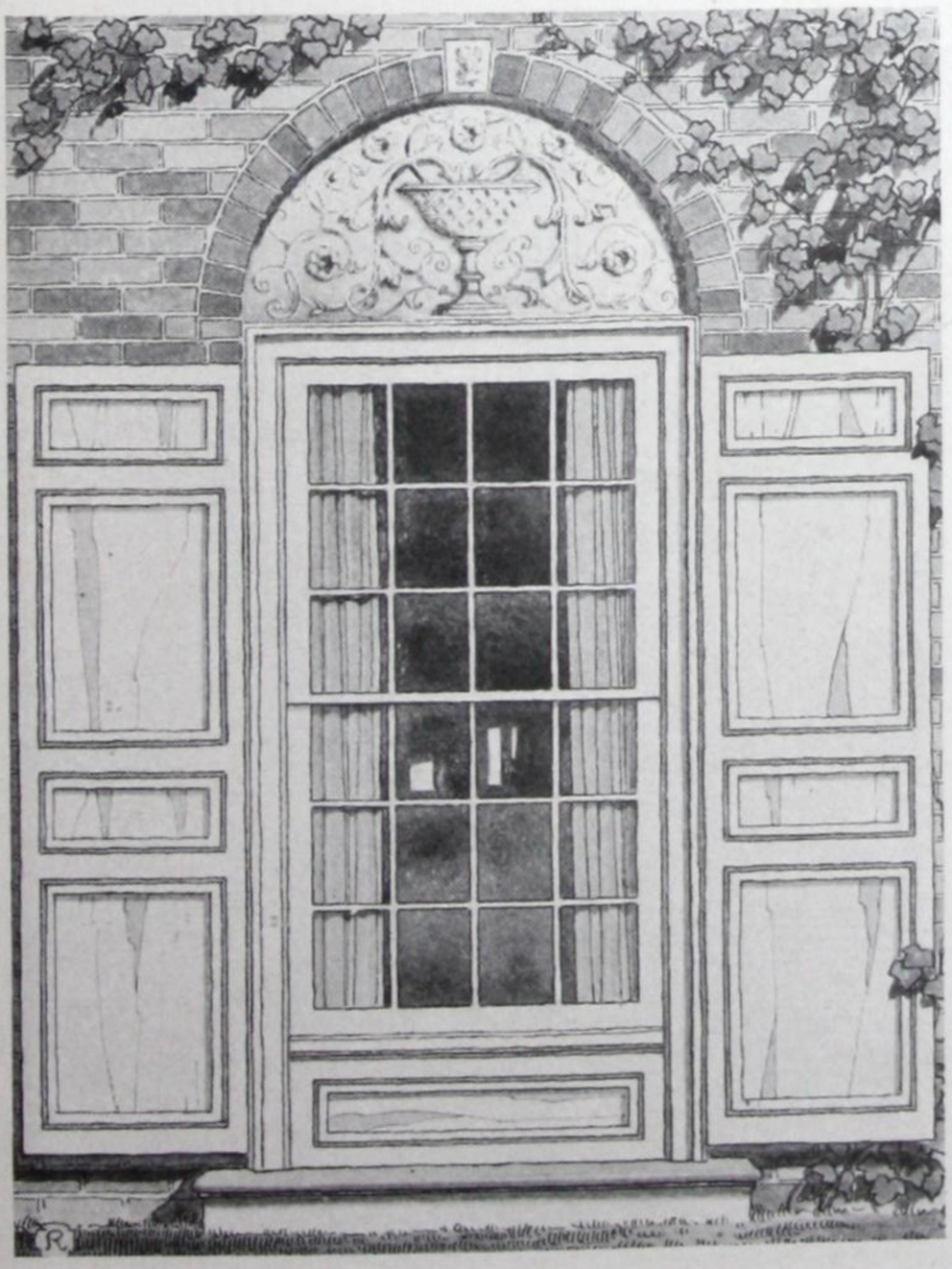
Window Beauty Is Preserved

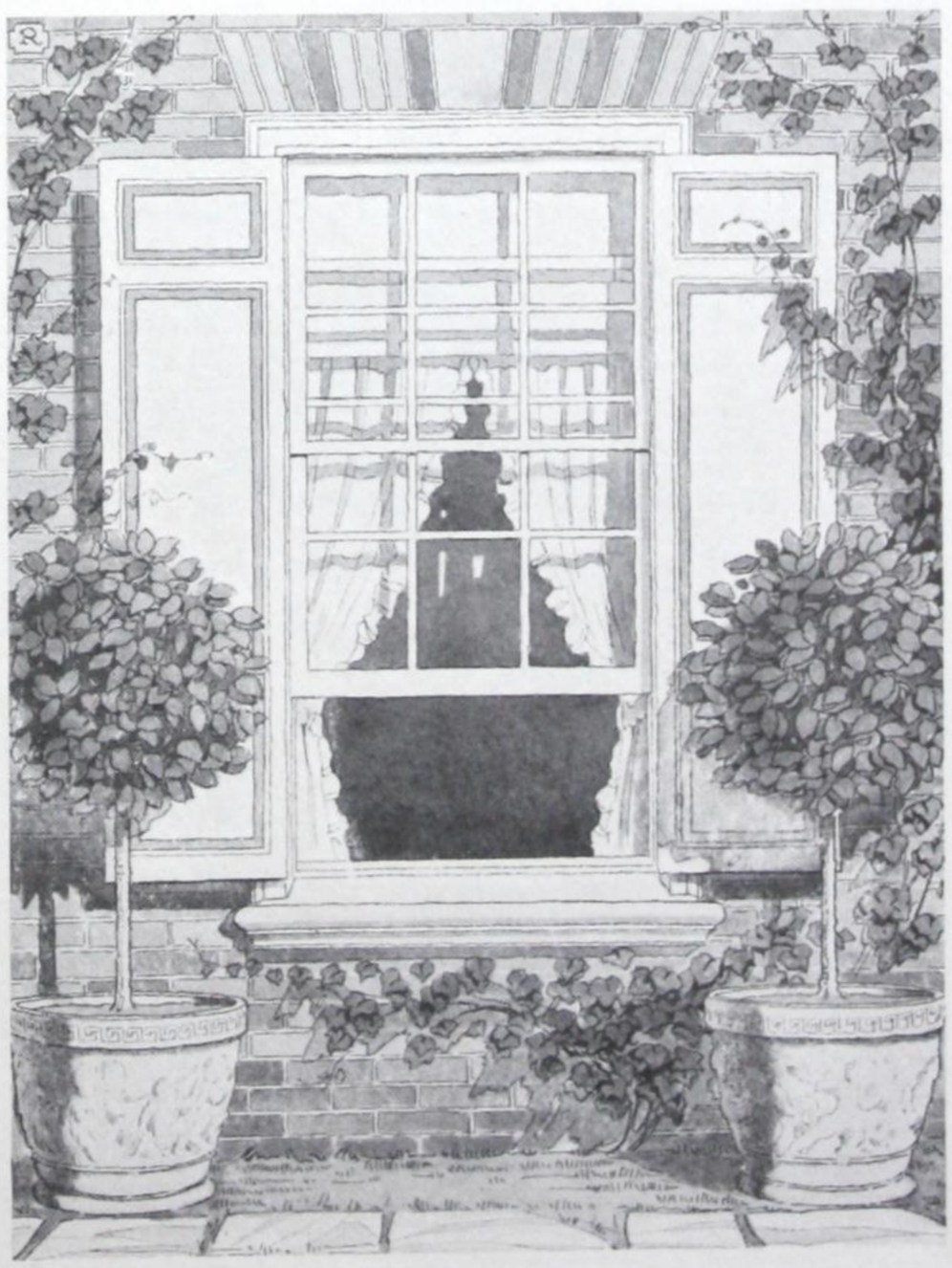
ROLSCREENS do not mar the beauty or hinder or interfere with operation of casement sash

FOR EVERY TYPE OF WINDOW

No matter what the type of window . . . double hung or casement . . . wood or steel . . . it can be equipped with ROLSCREENS of Pella. The fifteen exclusive patented features incorporated in their construction, which make them so durable and rigid that we guarantee them for ten years, can only be had in the genuine ROLSCREENS of Pella. ROLSCREENS are permanent. They need never be removed from the window. They roll up and down like a window shade. No obstructed vision when windows are closed. No storage space required. ROLSCREENS are thoroughly insect-tight . . . locked in on all sides. No gapping edges from shrinkage or bad fitting. In planning your home be sure to discuss ROLSCREENS of Pella with your architect.







Rolscreens Are Neatly Concealed

ROLSCREENS allow a new freedom and a new beauty in complete screen protection

ROLSCREENS FOR ALL TYPES OF HOMES



Rolscreened home of C. S. Teal, Washington, D. C.
A. H. Sonnemann, Architect

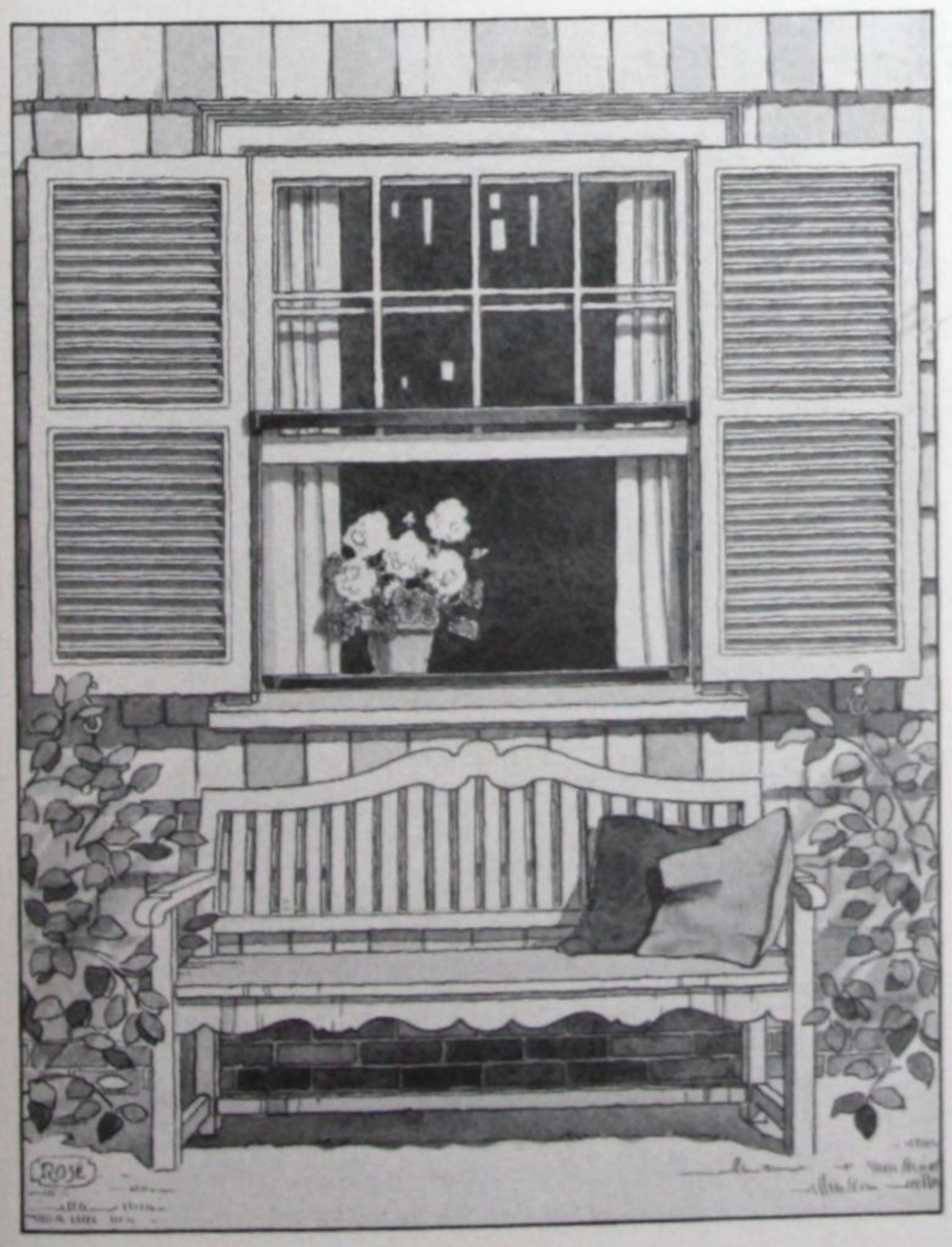
Rolscreened home of Col. Robt. H. Morse, Chicago, Ill.
Zimmerman, Saxe & Zimmerman, Architects.





DIRECT TO CASEMENTS

ROLSCREENS can be attached directly to steel casements so as not to interfere with sash handles and sash operators. The casements can be opened, closed and locked without raising the screen. ROLSCREENS have many advantages over frame screens as used with casements. There's no blurring of the vision through clear glass, there's no gaudy screen wire to detract from fine draperies . . . because ROLSCREENS are out of sight when the window is closed. ROLSCREENS don't have to be taken down each time windows are washed . . . there's easy access to awnings and flower boxes. You don't want screens over your windows all winter long . . . frame screens must be taken down for storage . . . ROLSCREENS store themselves. On the newer types of casements, ROLSCREENS utilize the screen brackets already fitted on the windows



MODEL 50 ROLSCREEN

Model 50 ROLSCREEN meets the demand for a rolling screen of moderate cost that can be easily installed on the outside of double hung windows without alteration or fitting. This Model is similar in construction to Senior ROLSCREENS except that it covers only the lower half of the window. It eliminates the twice-a-year nuisance of putting up, taking down, storing, sorting, repairing and repainting. The narrow and inconspicuous guides at the sides and the narrow bottom rail do not reduce the light and ventilating area of your windows. There is no taking down for window washing. There is easy access to awnings. The same exclusive patented features, and the same clean, clear vision AluminA wire cloth as used in Senior ROLSCREENS are also used in Model 50. Banish the drudgery of old-fashioned window screens!

WHAT ARCHITECTS SAY ABOUT ROLSCREENS



ROLSCREENS WERE NECESSARY FOR PRESERVING THE BEAUTY

This early American type home was designed and built by Mr. Leslie I. Nichols, Architect, for his own use. Mr. Nichols makes an interesting comment . . . He says . . . "The old type wooden screens set on the outside of the window entirely conceals the window, hiding the beauty of the panelled divisions. Wooden screens set on the outside couldn't be used for this house. Therefore, the screens must be set inside. Could a wooden screen be used satisfactorily inside? It is a known fact that it can't. The answer was a rolling type screen. The beauty of the windows, both inside and out, has been preserved in the only way possible, consistent with the most improved method of screening. This house is just as charming and lovely as its prototype."

ALFRED A. HAHN
TOLEDO, OHIO

"Found Rolscreens satisfactory in every respect. The savings on 1,200 openings is very attractive. We give our unqualified endorsement to your equipment."

C. MELVIN FRANK
COLUMBUS, OHIO

"After three years of daily observation I find Rolscreens to be one of the chief comforts in the home. Your guarantee has been given in a manner most pleasing."

EARL K. BISHOP
PERRY & BISHOP, NEW BRITAIN, CONNECTICUT

"Have installed Rolscreens on every residence job since 1927, and have yet to hear of a single removal. Using them on both casement and double hung windows satisfactorily."

J. WINTHROP WOLCOTT
BALTIMORE, MARYLAND

"I am 101 per cent sold on Rolscreens . . . no storing, hanging or repainting. I appreciate the close attention you give to each installation."

ELMER E. NIEMAN
COLORADO SPRINGS, COLORADO

"Used Rolscreens in what is the finest house in Colorado Springs and have always found them very satisfactory."

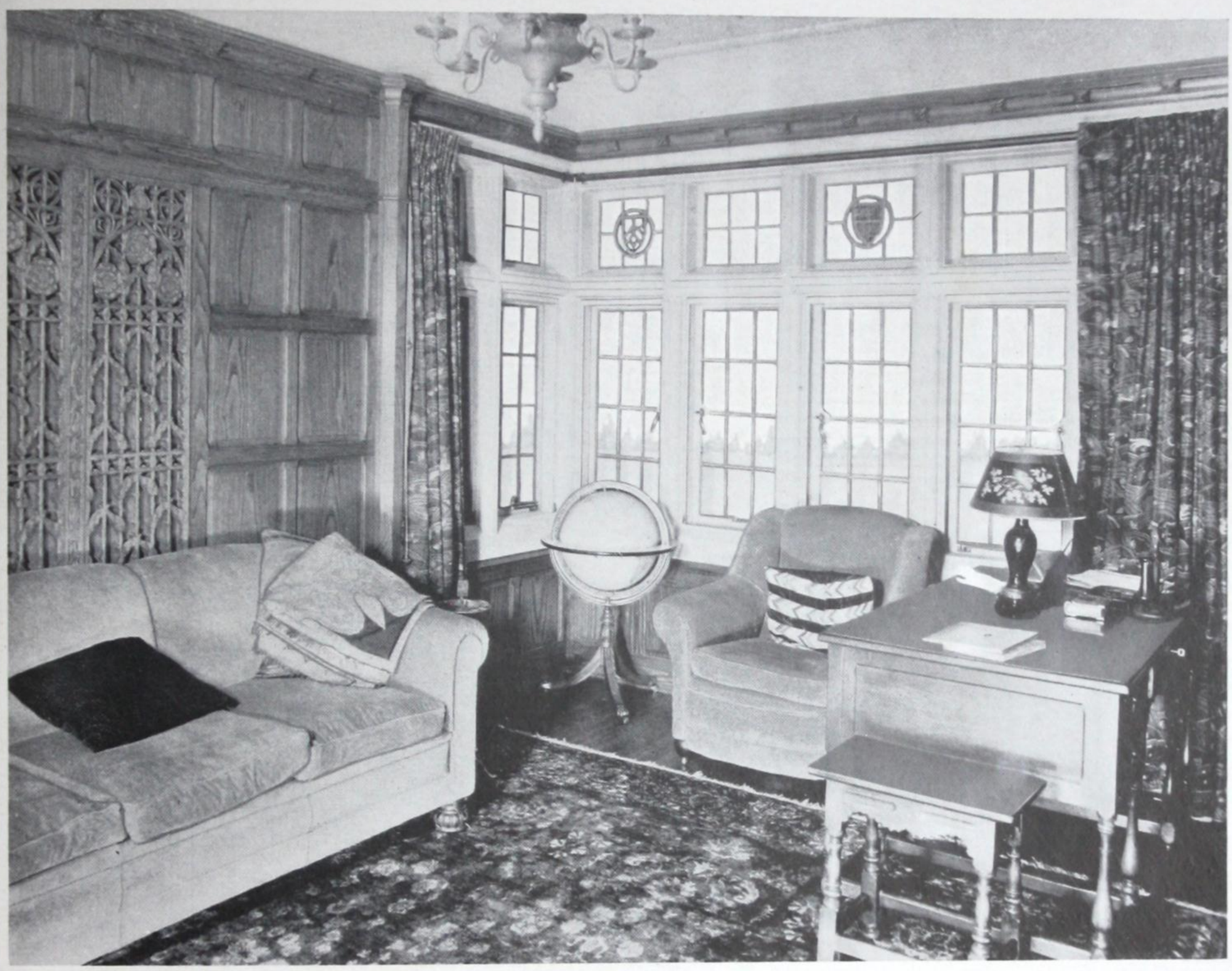
WESLEY LESHER BLITHE
PHILADELPHIA, PENNSYLVANIA

"It is a pleasure to have a necessary adjunct concealed without detracting from an architectural feature, yet ready for instant use."

A. H. SONNEMANN
WASHINGTON, D. C.

"Rolscreens are installed in a number of Kenwood homes and give excellent service. The first were installed over three years ago and work perfectly without adjustment or repairs of any kind."

WHAT HOME OWNERS SAY ABOUT ROLSCREENS



ROLSCREENS BLEND IN BEAUTIFULLY WITH CASEMENT WINDOWS

When selecting your screens, insist they be genuine ROLSCREENS of Pella . . . the screens thoughtfully designed and engineered in behalf of beautiful windows. ROLSCREENS are fully guaranteed . . . having incorporated in them fifteen exclusive patented features which insure many years of satisfactory service at a surprisingly low cost. Below we quote from a few of the thousands of letters we have received from enthusiastic ROLSCREEN users.

MR. L. E. BLOCK
GERMANTOWN, PENNSYLVANIA
"Rolscreens giving good service. Finest thing in my house."

MR. JOHN JANERI
SAN DIEGO, CALIFORNIA
"The Rolscreens work perfectly. They are wonderful."

MR. H. R. CORBETT
CHICAGO, ILLINOIS
"Giving satisfactory service for seven years. Work perfectly."

MR. A. L. HANOVER
NASHVILLE, TENNESSEE
"Have proven satisfactory and I recommend them."

MR. J. H. BRIGGS
CHICAGO, ILLINOIS
"Rolscreens very satisfactory. Would order them again."

MR. O. S. WOLFE
ROCHESTER, NEW YORK
"Wonderful satisfaction. Would omit many things but not Rolscreens."

MR. KENNETH M. STEVENS
DETROIT, MICHIGAN
"For their beauty, I would not build another home without them."

MR. H. G. FRANTZ
SALIDA, COLORADO
"In winter give protection and prevent soiling drapes."

MR. J. H. McNABB
CHICAGO, ILLINOIS
"Rolscreens a real economy. Would have nothing else for windows."

MR. W. H. McKAY
SYRACUSE, NEW YORK
"Best investment I ever made."

HOME OWNERS TESTIFY TO ROLSCREENS

BEAUTY

MR. J. A. PARKS
WASHINGTON, D. C.

"Does not detract from architectural treatment of windows."

MR. J. H. ETTER
SAN FRANCISCO, CALIFORNIA

"Do not spoil the beauty of the windows."

MR. J. H. HAHN
CINCINNATI, OHIO

"Unusually neat in appearance."

MR. WESLEY L. BLITHE
PHILADELPHIA, PENNSYLVANIA

"Rolscreens give utility without detracting from the architectural features."

MR. THOS. K. WINDHAM
ATLANTA, GEORGIA

"We are delighted with the appearance of the screens."

CONVENIENCE

MR. A. T. SHARP
KANSAS CITY, MISSOURI

"Four years without a particle of trouble. Big convenience."

MR. C. W. ARNUM
RIVER FOREST, ILLINOIS

"Rolscreens save time, work and worry."

MR. J. W. ESSWEIN
BROOKLYN, NEW YORK

"Rolscreens mean convenience with economy."

MR. F. C. CASPER
EVANSTON, ILLINOIS

"Indispensable for convenience and service."

MR. J. H. COLLIER
WASHINGTON, D. C.

"So conveniently out of sight when not in use."

MR. G. P. MOUGEY
CINCINNATI, OHIO

"For four years Rolscreens have been a real pleasure and convenience."

MR. L. N. STAFFELBACH
CHICAGO, ILLINOIS

"Rolscreens are ideal. Convenience without usual bother of painting, repairing and installing."

ECONOMY

MR. J. K. TAUERMAN
FT. DODGE, IOWA

"In five years never spent a penny."

MR. R. J. CURTIS
PHILADELPHIA, PENNSYLVANIA

"Rolscreens are very inexpensive."

DR. A. B. LANDRUM
COLUMBUS, OHIO

"No expense or upkeep since installed."

MR. L. REGNER
SAN MATEO, CALIFORNIA

"People should prefer Rolscreens at any price."

MR. FRANK B. MILLER
CHICAGO, ILLINOIS

"A real economy in the saving of labor."

MR. H. A. O'DELL
DETROIT, MICHIGAN

"Am delighted with Rolscreens after five years of use. A good investment."

SERVICE

MR. F. C. PEOLI
TUDOR CITY, NEW YORK

"No other can take their place in service and convenience."

DR. W. E. NEWCOMB
CLEVELAND, OHIO

"Four years and still functioning perfectly."

MR. SAM COWAN
OKLAHOMA CITY, OKLAHOMA

"Rolscreens are serviceable, convenient and durable."

MR. P. W. KNEFELY
BALTIMORE, MARYLAND

"Giving entire satisfaction. Would not do without Rolscreens."

MR. SIDNEY RICE
INDIANAPOLIS, INDIANA

"I am well satisfied with the service and would recommend them to anyone."

SAFETY

MR. S. V. SEDDON
SAN FRANCISCO, CALIFORNIA

"Rolscreens keep my small daughter from falling from window."

MR. C. A. GARLAND
MEDIA, PENNSYLVANIA

"Rolscreens give a feeling of security at night."

MR. H. F. CONKLIN
ALBANY, NEW YORK

"Prowlers prevented from entering home during absence, thanks to Rolscreens."

MR. D. A. WOODCOCK
NEW YORK, NEW YORK

"Give protection to our children's bedroom at night."

MRS. W. E. MARQUAM
HINSDALE, ILLINOIS

"Rolscreens a great convenience and safety during spring and fall cleaning."

THE ROLSCREEN GUARANTEE

☆ ROLSCREENS are guaranteed against defects in workmanship or material for a ten year period. A new screen will be furnished free of charge for any failing under this guarantee. This does not cover damage or abuse to the screen or any other condition beyond the normal control of the manufacturer

THE ROLSCREEN POLICY

☆ The hidden values received by ROLSCREEN owners are based upon the policy of the company to build a product of marked excellence, represented truthfully, and to follow every installation with interest and a pledge of satisfaction. Prompt and competent service is available everywhere through an organization of exclusive ROLSCREEN offices and five hundred dealers . . . co-ordinated by efficient factory co-operation

☆ AND ROLSCREEN SERVICE

You are invited to mail this coupon to Rolscreen Company, Pella, Iowa, giving the information asked for. The nearest Rolscreen representative will call on you promptly to lend his assistance, without obligation.

Date_____

ROLSCREEN COMPANY, Pella, Iowa:

Will you have your nearest representative call _____ (Date) at _____ (A. M.) (P. M.) to submit Estimate on Rolscreens ☐ Pella Venetian Blinds ☐ for approximately _____ (Number) windows. It is understood that this places me under no obligation.

WE HAVE . . .

- ☐ New home under construction.
- ☐ Home already built.
- ☐ Double Hung Windows.
- ☐ Wood Casements.
- ☐ Steel Casements.

OUR NAME AND ADDRESS IS . . .

_____

_____

_____

Telephone No. _____

ROLSCREEN CONSTRUCTION . . . *STANDARD TYPE*

☆ ☆ In its engineering activities the Rolscreen Company has always held to the fundamental principles that ROLSCREENS must be easy to operate and easy to install, and of such rigid and durable construction that they will give many years of trouble-proof service under most strenuous conditions. Those features which have made ROLSCREENS a really practical rolling window screen and have led to their adoption by thousands of owners, builders and architects all over the world, are exclusive and patented.

ROLSCREENS are built in standard stock sizes to fit all openings from 10″ to 61″ wide, and up to 120″ high, and are carried in stock ready for immediate shipment.

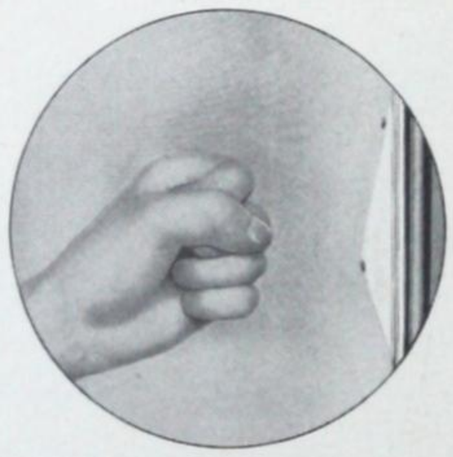
ROLSCREEN FEATURES . . . GUIDES . . .

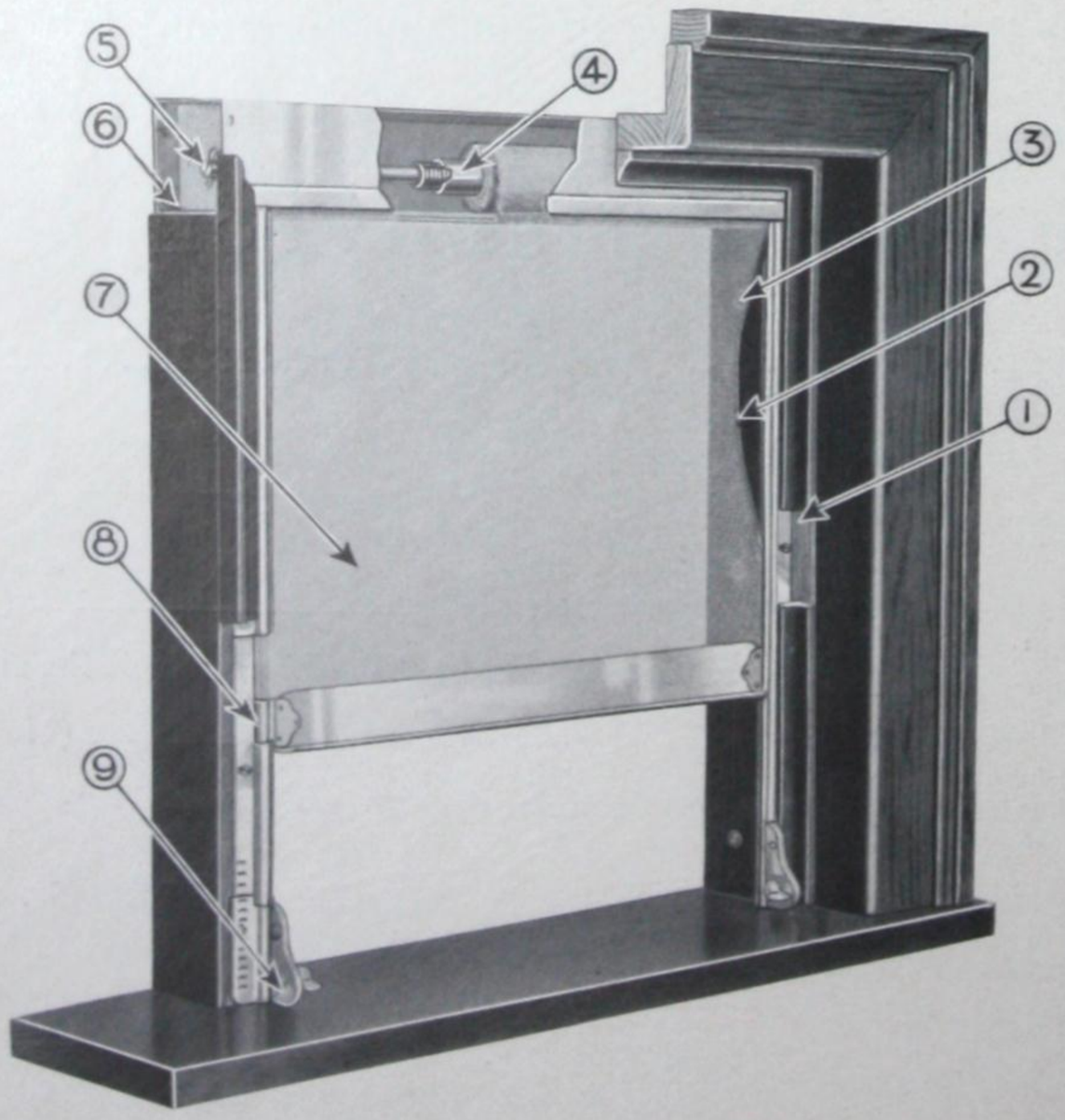
(Numerals refer to features pointed out in cut-away illustration of Rolscreen Construction.)

The Rolscreen guides (1) grip lugs (2) fastened in the selvages of the screen wire and prevent its sagging and bagging. Slotted holes in the attaching flanges allow the guides to adjust themselves in case of swelling or shrinking of the woodwork. Blocks on the ends of the operating bar (8) are frictionally engaged in the guides. This frictional engagement prevents the cross bar tilting and regulates the action of the screen preventing its flying to the top when released. When installing Rolscreens, the operating bar, as it is drawn through the guides, acts as a template and automatically adjusts the guides to the opening. Lips at the upper ends of the guides co-acting with the housing, assure accurate installation. The guides are very inconspicuous . . . the only part exposed being a bead the size of a pencil. A specially designed groove along the jaws of the guides prevents paint entering and binding the screens when redecorating them.

ROLSCREENS ARE INDESTRUCTIBLE . . .

Rolscreens are built to stand up under hard service. If the screen wire receives a blow hard enough to tear or bag the ordinary screen, the lugs (2) in the selvages of the cloth are released from the guides (1) without injuring the wire. Upon pushing the entire released edge to the outside and raising the screen its full length, it will realign itself by riding over the cut-away back side of the guide (3) and will be automatically re-entered and re-stretched when the screen is lowered.



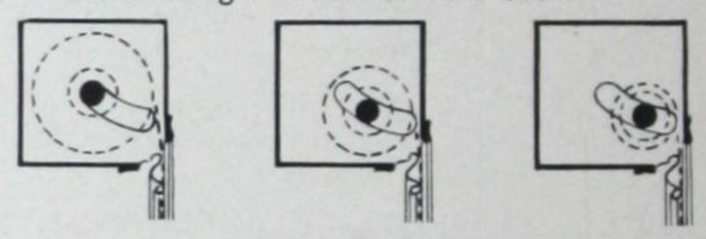


THE ROLLER ASSEMBLY . . . The roller (4), onto which the screen wire is soldered, together with the spring inside, is built in the Rolscreen factory. The springs are coiled out of extra heavy oil-tempered wire on automatic machines. The entire assembly is very simple and durable and cannot give trouble.

THE HOUSING . . . The Rolscreen housing is electrically welded and of very sturdy construction. Recessed ends (6) reinforce it and make it rigid. The standard housing is 2⅝″ square. For openings less than 52″ high, a 2⅛″ housing may be used. For openings over 84″ high, a 2⅞″ housing must be used.

All of the metal parts of ROLSCREENS, the housing, guides, and operating bar, are constructed of lead-coated terne-plate, which offers a perfect bond for paint.

THE FLOATING ROLLER . . . A special feature of Rolscreens is the patented "floating" roller (5). As the screen lowers and the roll of screen cloth grows smaller, the entire roller assembly automatically moves forward. The screen wire cannot drag on the lower edge of the housing and cannot wear out.



SCREEN CLOTH . . . The screen cloth (7) is double-lifed, rust-proofed, triple selvaged AluminA, especially woven and processed for Rolscreens. It is a clean grey color and almost invisible. It has great tensile strength, it is rigid and is built up of materials that are guaranteed not to break or crack under continuous flexing. The mesh is perfect, sixteen strands to the inch. This is an ideal weave. It keeps out the smallest insects, yet allows maximum visibility and ventilation.

METAL PARTS . . The metal parts of Rolscreens are manufactured from lead coated terne-plate. This metal provides a perfect surface for paint, for Rolscreens are usually to be painted after they are installed so as to harmonize with surrounding trim. If the screens are not to be immediately painted, they can be prime coated at the factory for a very small charge. Or they can be completely finished in fine enamel at a nominal cost.

LATCHES . . . When lowered, Rolscreens are automatically locked on the window sill by positive latches (9) which are perfectly adjustable and can be unlocked only from the inside. No attachments to mar beautiful sills.

Mechanical Features

1. Rolscreen guide — Laterally adjustable, paint proof slide channel.
2. Rolscreen lug in edge of screen cloth.
3. Rolscreen automatic re-entry feature.
4. Rolscreen roller assembly.
5. Rolscreen floating roller.
6. Rolscreen recessed housing and welded construction.
7. Rolscreen practically invisible cloth.
8. Friction block (frictionally controlled operation).
9. Automatic fully adjustable latch.

ROLSCREEN CONSTRUCTION . . . *DELUXE TYPE*

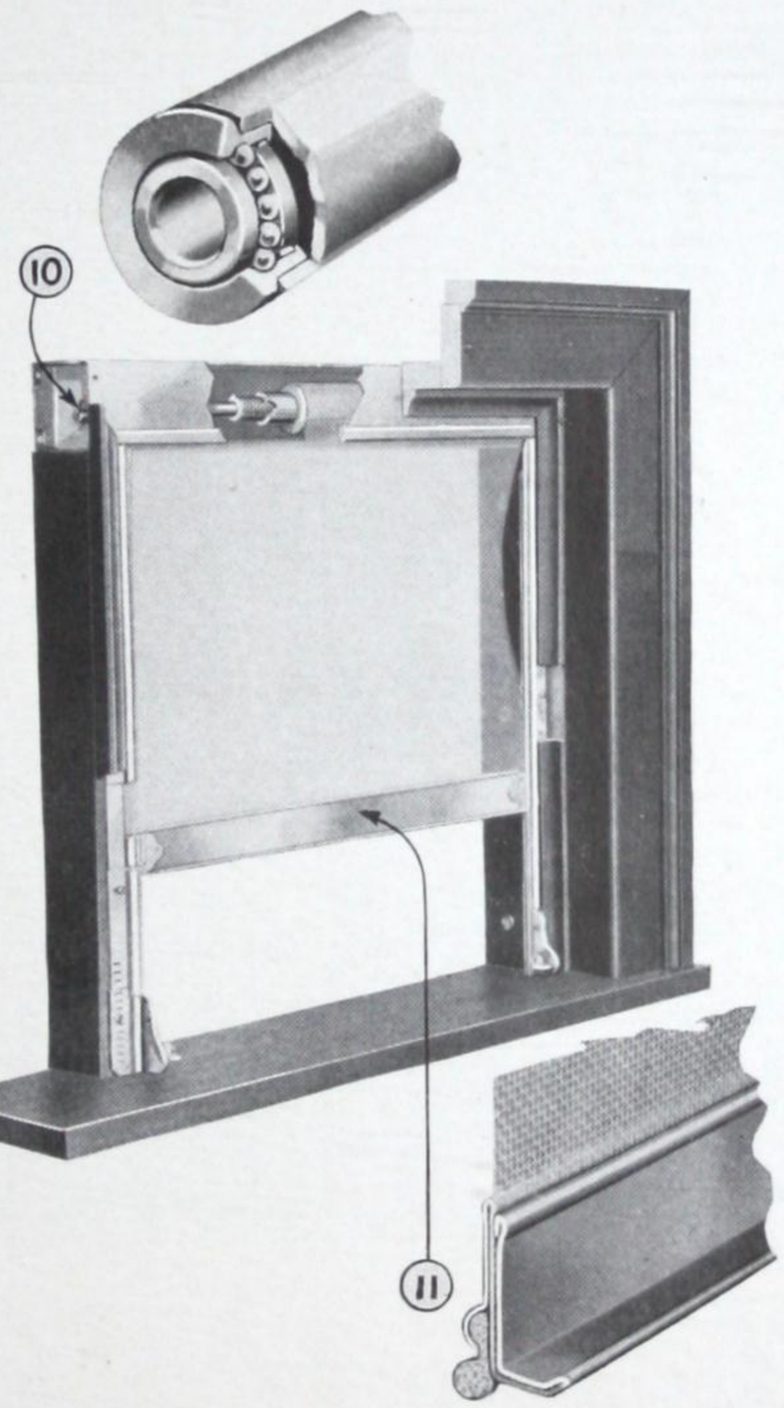
In designing the De Luxe Heavy Duty Type ROLSCREEN, it was the purpose of the Rolscreen Company to build the very best rolling screen that engineering genius and modern manufacturing facilities could achieve. In addition to all of the exclusive patented features incorporated in the Standard ROLSCREEN assembly . . . the patented guide construction, lugs holding the screen cloth in the guides, automatic re-entry of screen cloth into the guides, frictional control of the operation of the screen, the floating roller, clear vision double-lifed AluminA screen cloth, and automatic lever type fully adjustable latches . . . three important features are added, a roller mounted on ball bearings, a heavy duty operating bar and a resilient rubberized sill contact.

Three Added Features

10—1. Roller bearings mounted in each end of the roller assembly. They insure long service and easy operation.

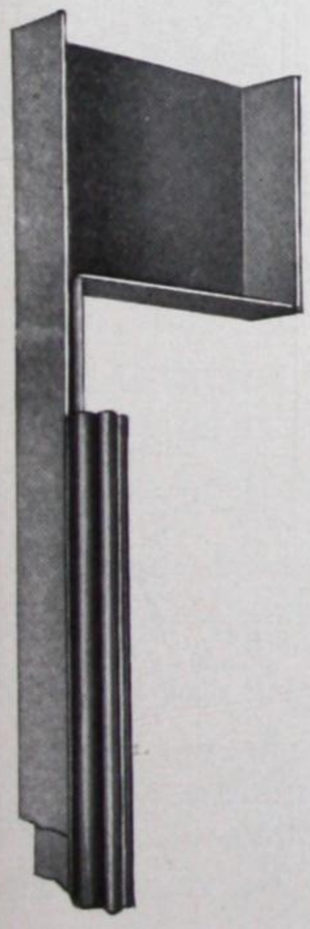
11—2. Heavy rigid operating bar . . . reinforced De Luxe Type.

3. Resilient, rubberized felt sill contact, insuring perfect closure between operating bar and sill . . . attached so as to be easily replaceable.



Heavy Duty Construction

The De Luxe type Rolscreen is used in all kinds of construction . . . residential, as well as institutional. It is especially recommended for hospitals and public buildings where screens are usually large and subjected to hard service. Operating handles can be attached to the De Luxe bar to facilitate the handling of wide and long screens.



Friction Angle

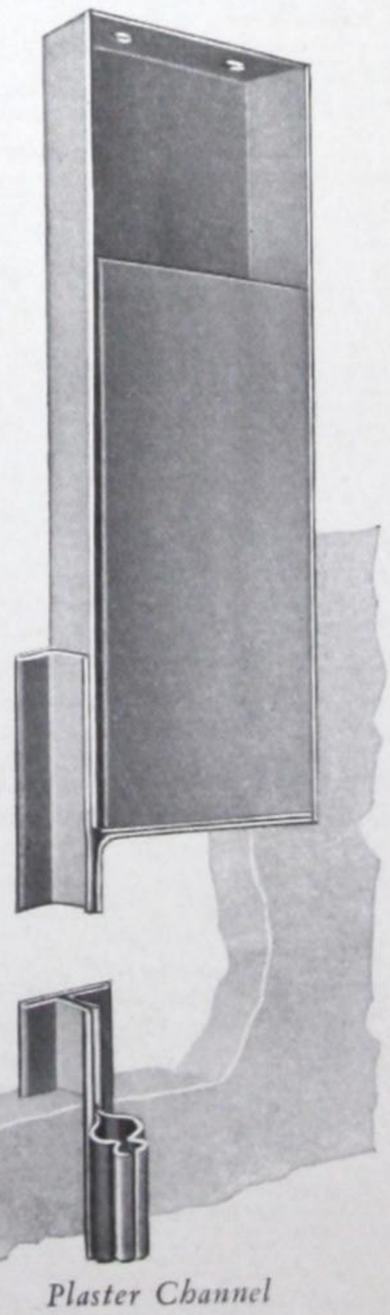
☆ ☆ ☆ *Rolscreen Mountings* ☆ ☆ ☆

FRICTION ANGLES

Friction angles provide a simple means for mounting ROLSCREENS without special fitting or cutting the wood trim. They support the screen housing and frictionally hold the Rolscreen guides. They are made in varying depths as shown on back page, so that standard stock size ROLSCREENS can be fitted into all fractional inch width openings.

PLASTER CHANNELS

Where there is to be no wood trim around the windows and the plaster is to be brought around the jamb directly into the sash, ROLSCREENS can be installed by setting plaster channels on the rough jambs so that they will be imbedded in the plaster. A removable filler cap supports the ROLSCREEN housing and provides for insertion or removal of the screen assembly.



Plaster Channel

ROLSCREEN GUARANTEE . . . ROLSCREENS are guaranteed against defects in workmanship and material for a ten-year period. A new screen will be furnished free of charge for any failing under this guarantee. This does not cover damage or abuse to the screen or any other condition beyond the normal control of the manufacturer.

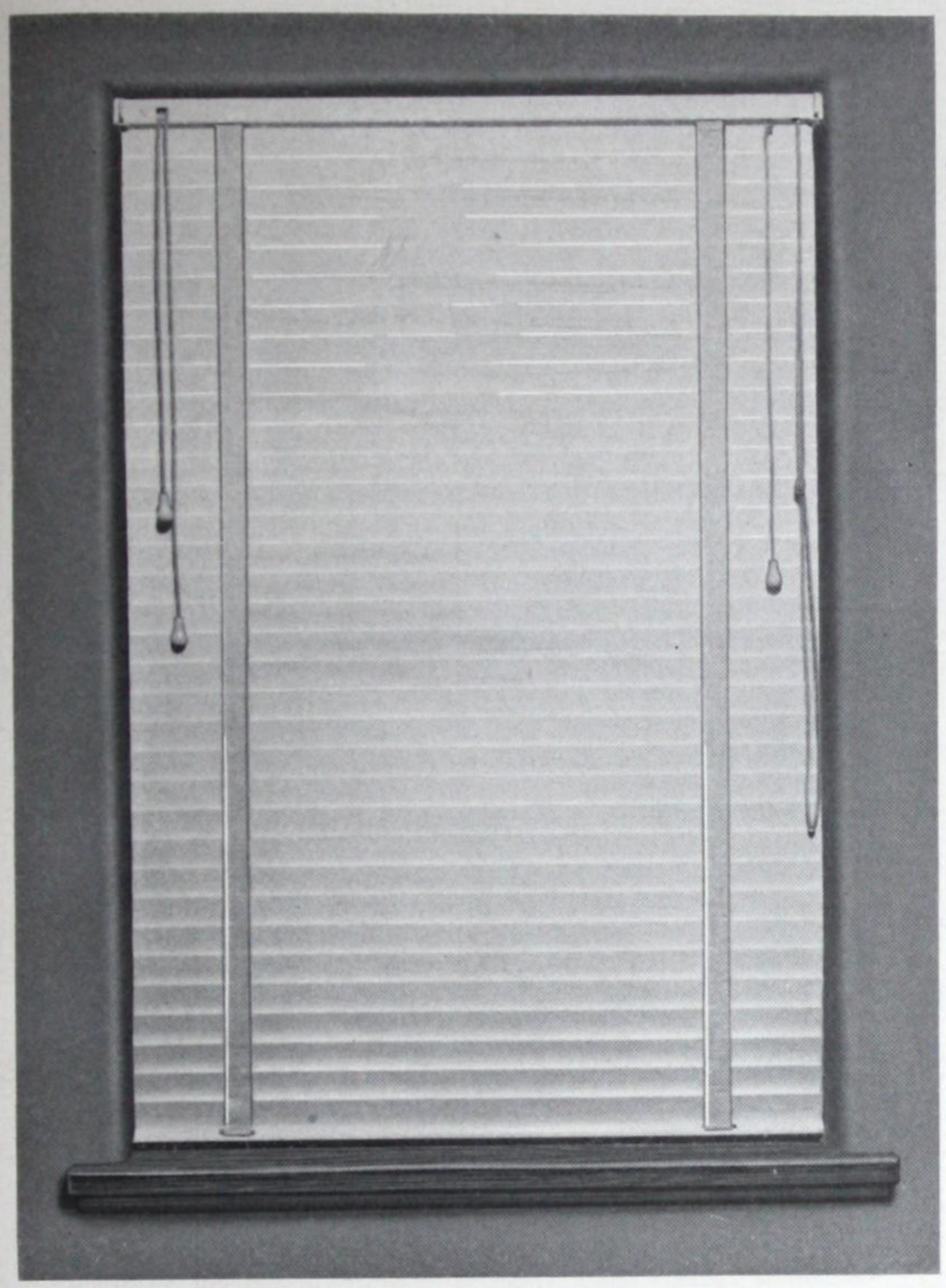


THAT FINAL TOUCH
OF ELEGANCE . . .

PELLA *Venetian Blinds* FOR YOUR WINDOWS

☆ Whether your decorative motif be Modern or Early American, French Provincial or Georgian, Pella Venetian Blinds fit in perfectly with your window draping effects. They are the ideal window shade equipment . . . they give you perfect control of lighting and ventilation . . . just the light to suit the mood . . . a light of soft mellowness during hours of rest and relaxation . . . full radiance when you are genial and active. For seclusion they give complete shading day or night.

Decorative possibilities are unlimited . . . color combinations in delicate tints may be selected for simple dignity and quiet harmony . . . or striking color combinations in tapes and slats to suit the tastes of the moderns.



PELLA VENETIAN BLINDS
modern in mechanical perfection and unmarred beauty

PELLA *Venetian Blinds*

Beauty Predominates . . .
Mechanics Are Concealed

THAT MAKES THEM DIFFERENT

"ELIMINATE all unsightly brackets! ELIMINATE the tilting bar! ELIMINATE the light lines between the head member and the blind slats! Work it out so that the nesting of slats is perfect and compact when the blind is raised! Make the Blind easy to tilt! Make it hold its tilt in any position! Make it close perfectly! Make it lock without tying! Make it operate easily! Eliminate cord wear!" Those were the instructions to the engineering department of the Rolscreen Company when it was decided to offer a Venetian Blind through its sales representatives.

"Work out a new decorative effect! Work out new and striking color schemes! Make Pella Venetian Blinds beautiful!" Those were the instructions to the department in charge of decorative schemes.

The result is an achievement of which we are proud . . . it's the amazing accomplishment of each of these objectives. We have developed a product that is a fitting companion to ROLSCREENS; that incorporates nine exclusive features. It is a blind that is really different.

9 OUTSTANDING ADVANTAGES . . .

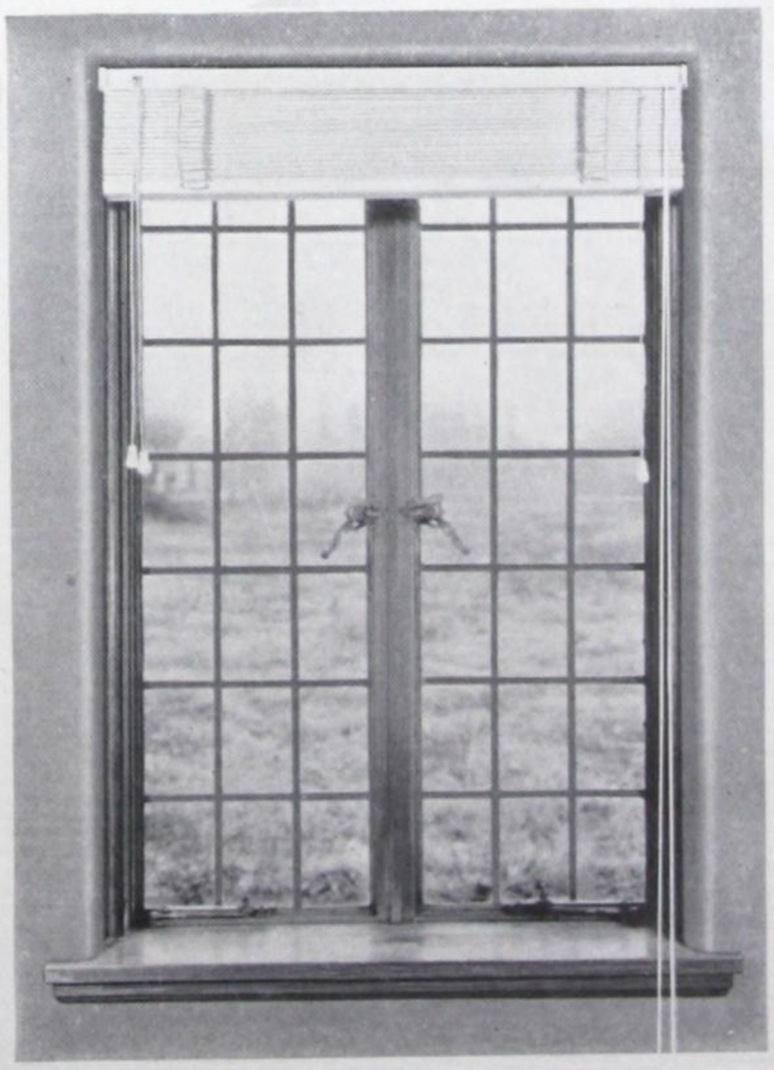
Gone are the unsightly brackets! Gone is the tilting bar! Gone are the light lines! Gone is the bunglesome bundling of slats! Gone is the difficult tilting! Gone is the slip of the tilting arrangement! Gone are the peek-holes between the slats! Gone is the bothersome tying of cords! Gone is the cord-wear and replacement of cords!

DECORATIVE EFFECTS . . . THEY'RE GORGEOUS!

They're new and exclusive . . . worked out by ROLSCREEN! Just a few suggestions! Slats silver with red edges and black tapes; slats light green with peach colored edges and black tapes; slats tan with Indian Orange edges and brown tapes; slats gold with black edges and green tapes! These as well as the more conventional colors . . . shades of cream and gray. Now, in addition to offering controlled lighting and ventilation, we offer a blind that appeals exactly to those discriminating home owners, architects and interior decorators whose delicate sense of beauty is jarred by crude mechanical devices injected into carefully planned window effects. Completely refined in every detail . . . that's the Venetian Blind by Rolscreen Company.

COMPARE PELLA VENETIAN BLINDS . . . Compare with Venetian Blinds as you know them. Note how neatly the slats nest. Note that there are no unsightly brackets, no light lines, no bothersome tying of cords. They are automatically locked in any position to any degree of tilt without wearing of cords. Bundle size is reduced 20%. There are no slats cut short to make room for brackets. All tilting mechanism is concealed in a small compact metal housing and beauty and symmetry predominate.

A NEW CONCEPTION OF BEAUTY!



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Rolscreens

TRADE MARK

OF PELLA



WAYNE

IRON AND CHAIN LINK FENCES AND GATES

Ornament and Protect Your Property

WAYNE IRON WORKS

WAYNE, PENNSYLVANIA

WAYNE

ORNAMENTAL ENTRANCE GATES

IRON PICKET FENCE

IRON ENGLISH HURDLE FENCE

BALCONY AND STAIR RAILINGS

IRON GRILLES AND AREA GRATINGS

CHAIN LINK FENCE

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INCORPORATED 1893

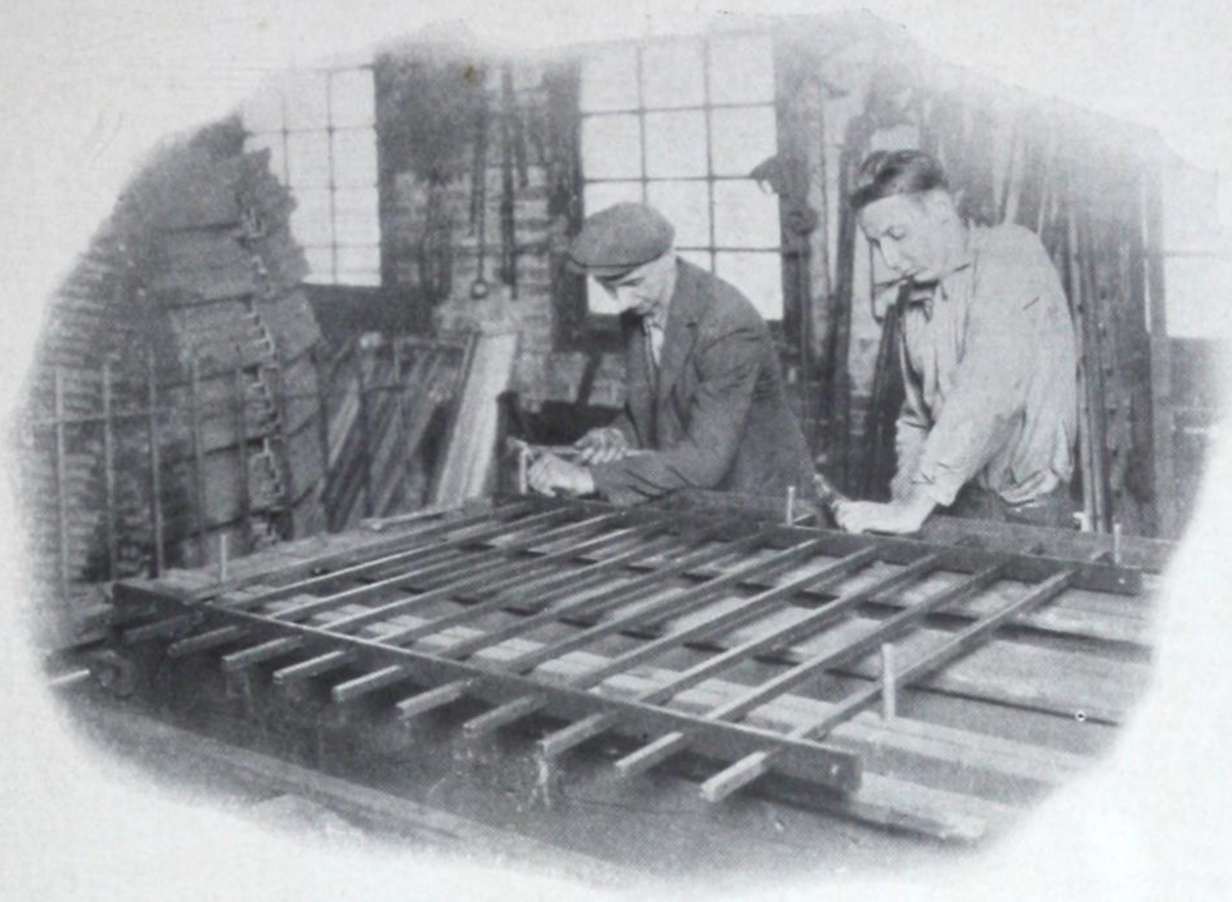
WAYNE, PENNSYLVANIA

TELEPHONE: WAYNE 1124

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Allentown, Pa.	Hazelton, Pa.	Philadelphia, Pa.	Trenton, N. J.
Baltimore, Md.	Lancaster, Pa.	Pottsville, Pa.	Wilmington, Del.
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WAYNE IRON FENCES AND GATES



THIS catalog, illustrating representative examples of Wayne Fences and Gates, is intended to bring to you the story of the skilled workmanship and the unfailing adherence to a very high standard of quality which makes this organization unique in its particular field. Wayne Fences and Gates are built to beautify and protect your property throughout the years. This important problem confronts every house owner and those contemplating the building of a new home. Our Engineers will assist you in selecting the proper fence enclosures without obligation on your part.

•

Here at Wayne, the old American tradition of doing work well is rigidly maintained. There are men in our shops who began work when we made our first iron fence, more than 40 years ago. Fathers and sons work side by side, the younger men obtaining from the older the refinements of craftsmanship that come of seasoned experience.

•

Naturally, it is impossible to give prices in this catalog, as conditions vary on different properties. However, this much we can say in regard to cost,—

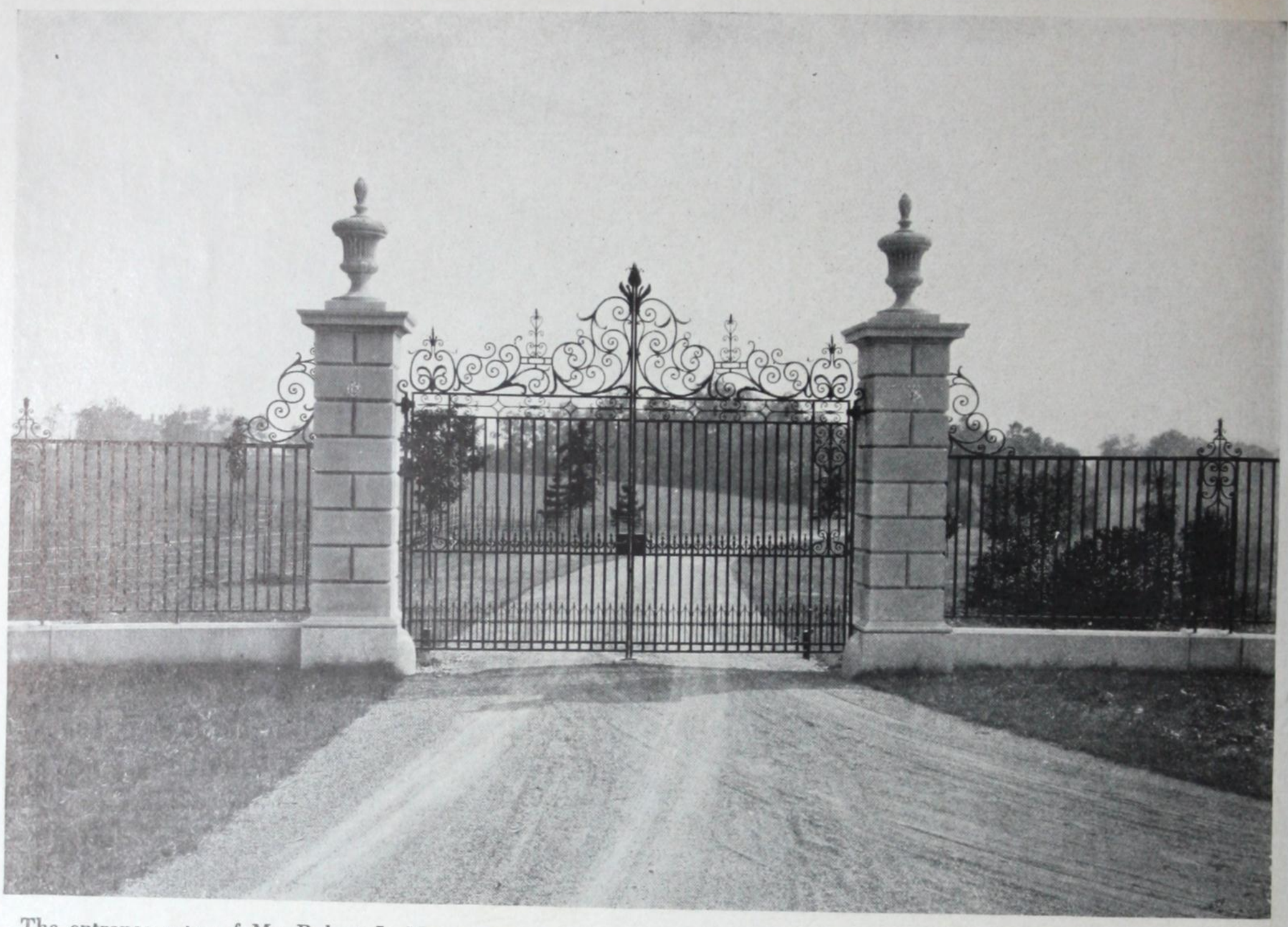
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Extensive knowledge, seasoned artisans, modern shop facilities and experienced erecting crews, all combine in effecting economical production.

Quotations and designs will be gladly furnished.

WAYNE IRON WORKS • WAYNE • PA.

ORNAMENTAL IRON GATES

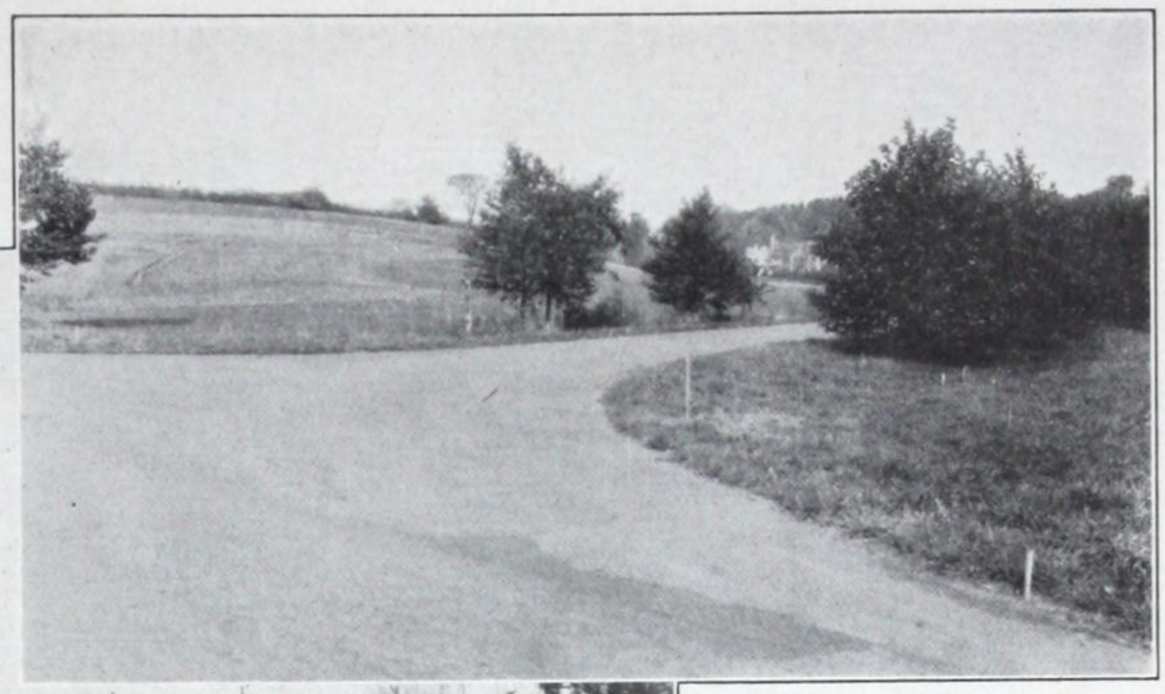


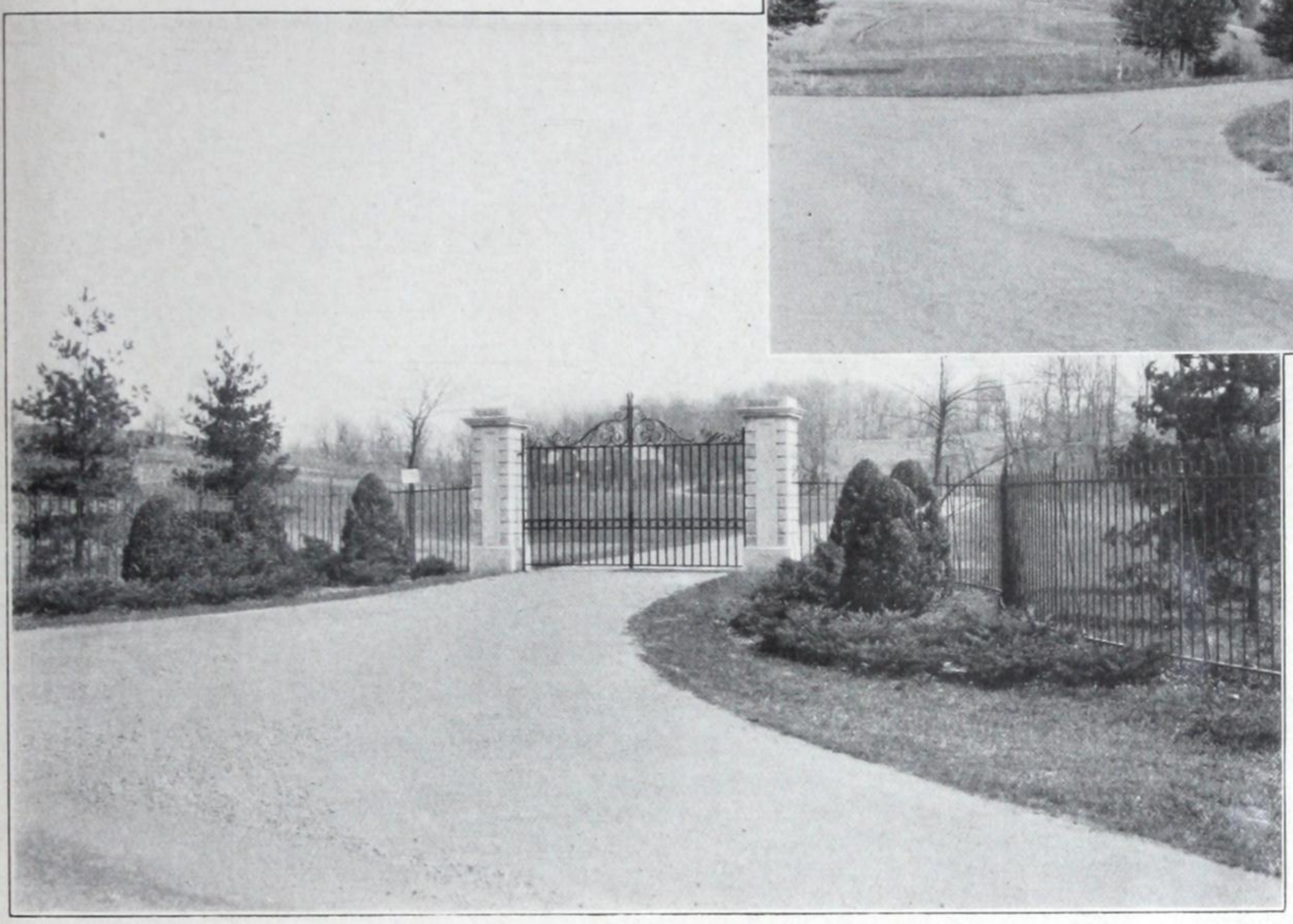
The entrance gates of Mr. Robert L. Montgomery's country estate at Ithan, Pa., harmonize with the decorative panels of the iron fence.



These beautiful iron gates, a striking example of Wayne craftsmanship, grace the entrance to the estate of Mr. George W. Nevil, Haverford, Pa.

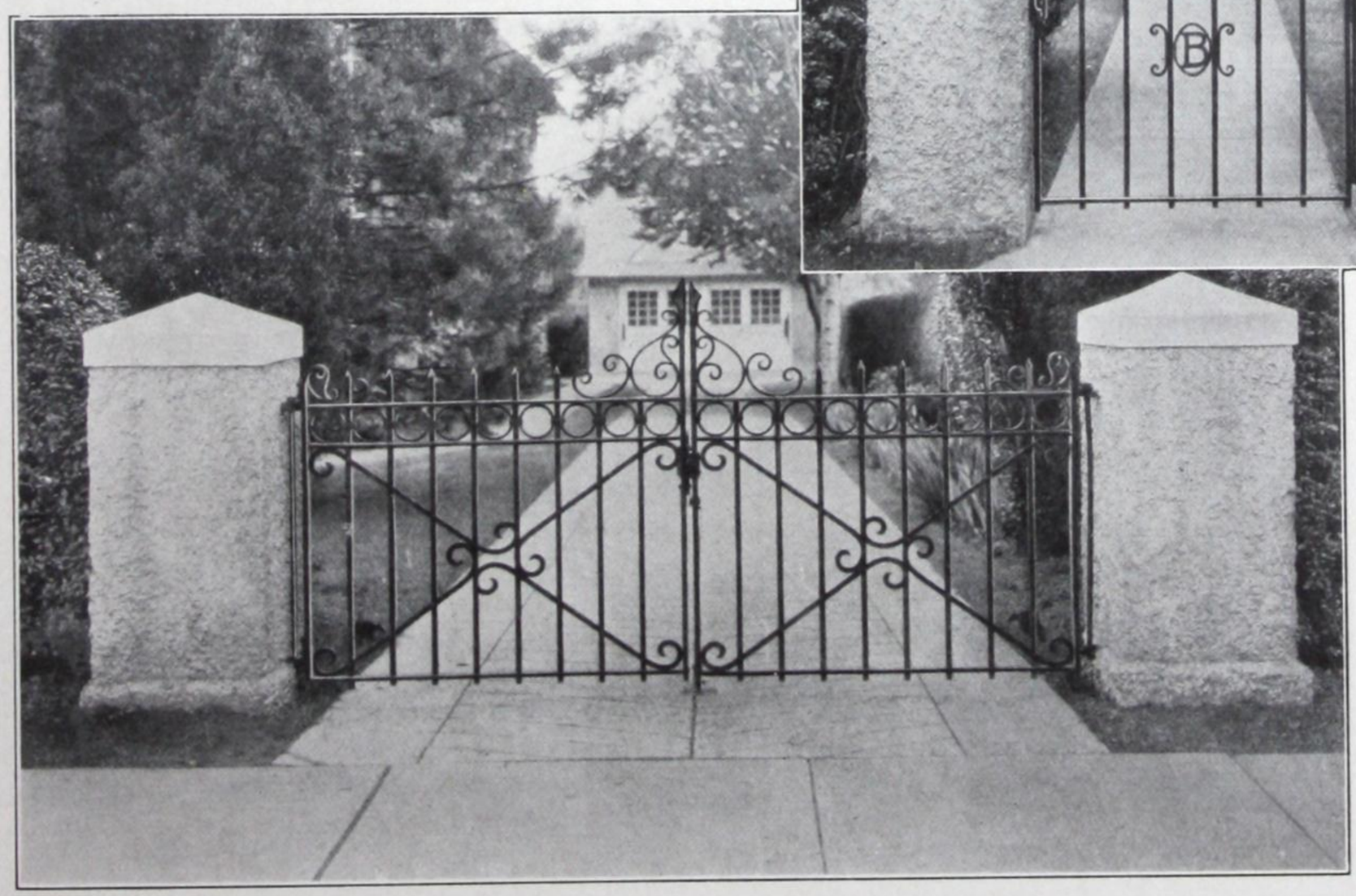
ORNAMENTAL IRON GATES





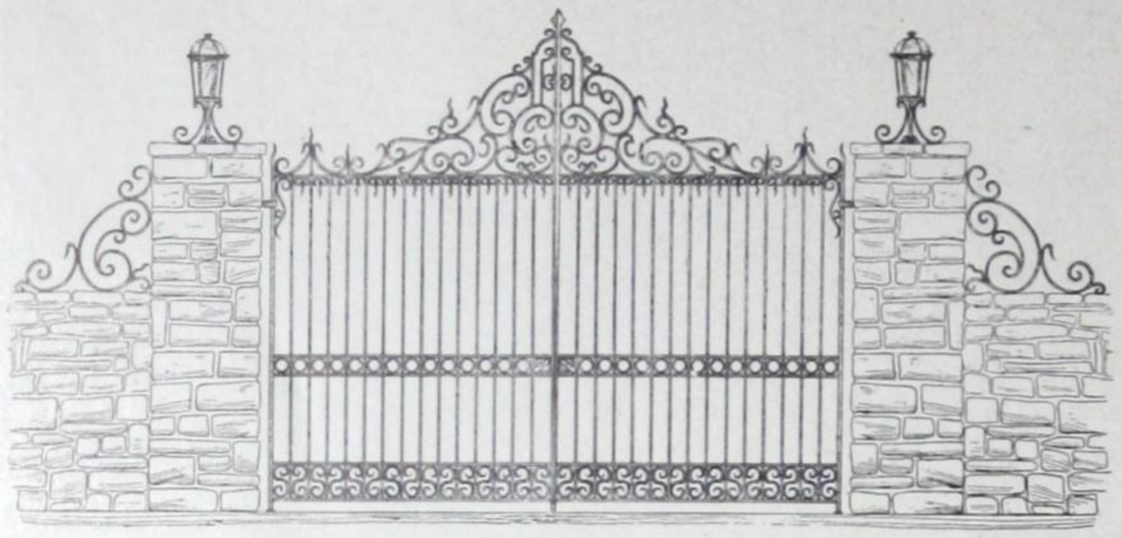
Before and after scenes on the property of Mr. Robert Kelso Cassatt, Rosemont, Pa., showing how landscaping, iron fence and stately ornamental gates can give character and beauty to an entrance.



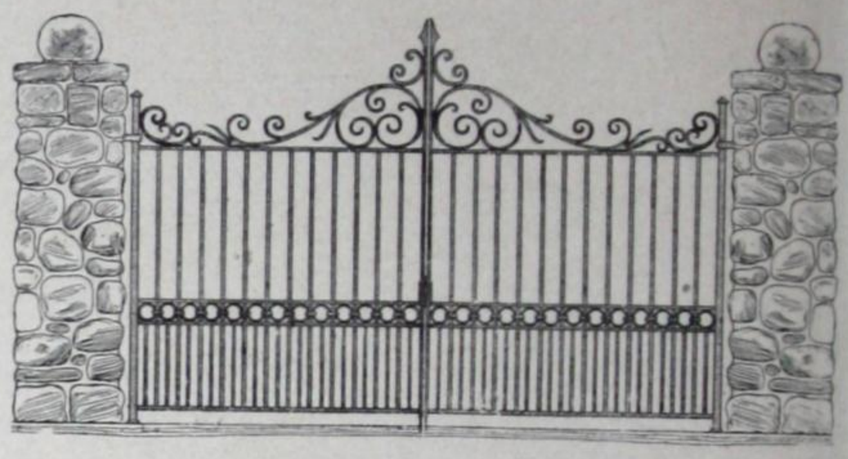


The drive and path gates, harmonizing in design, are on the estate of Mr. George H. Boles, Wynnewood, Pa.

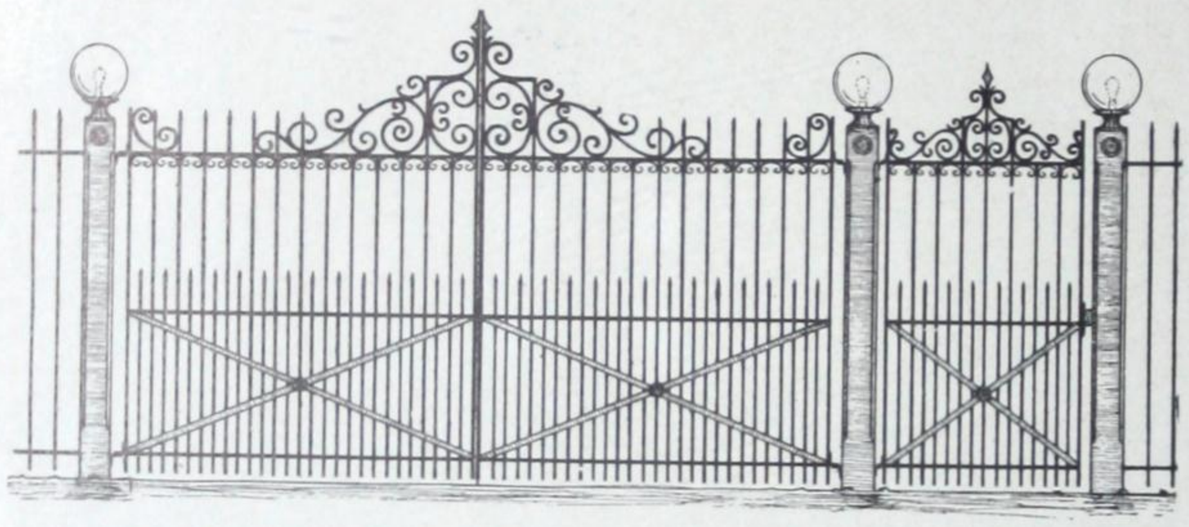
SUGGESTIONS FOR ORNAMENTAL IRON GATES



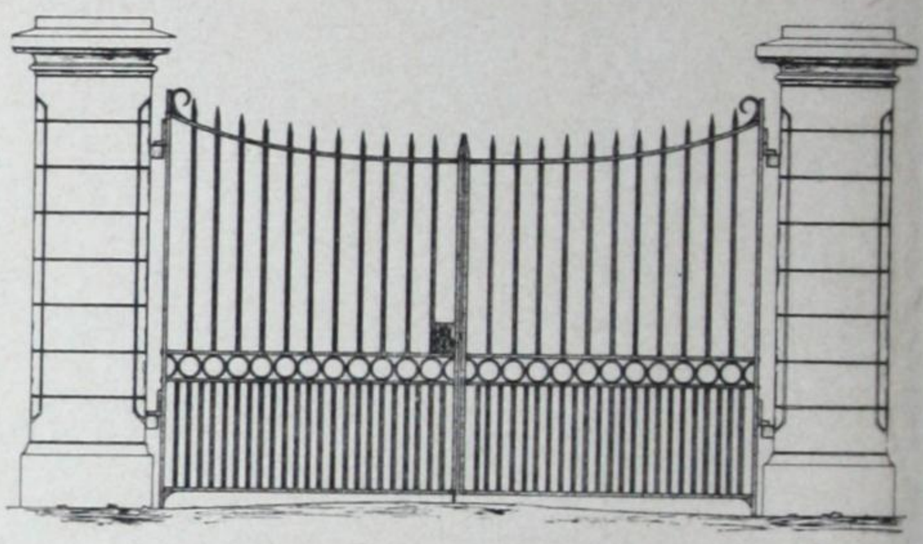
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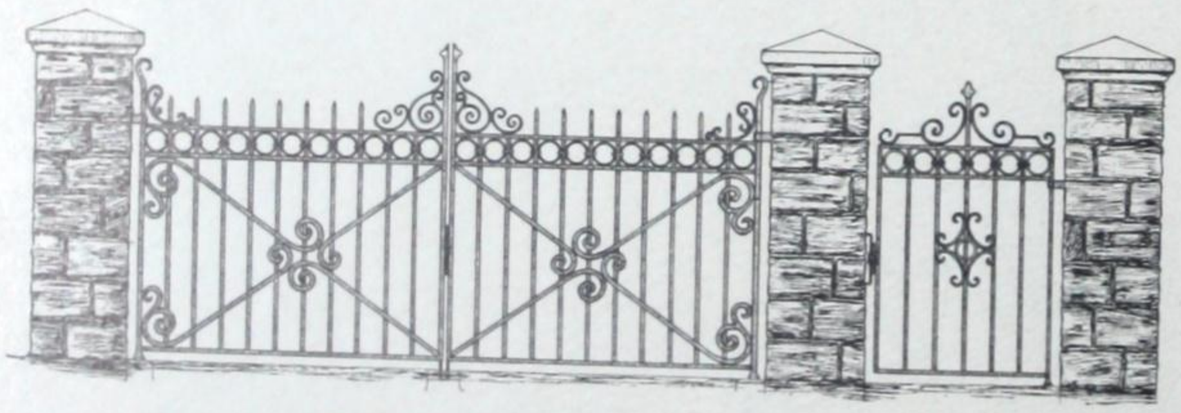
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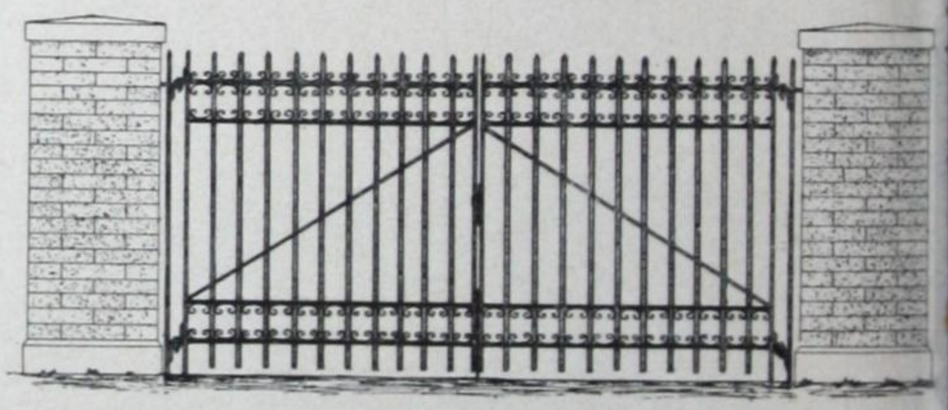
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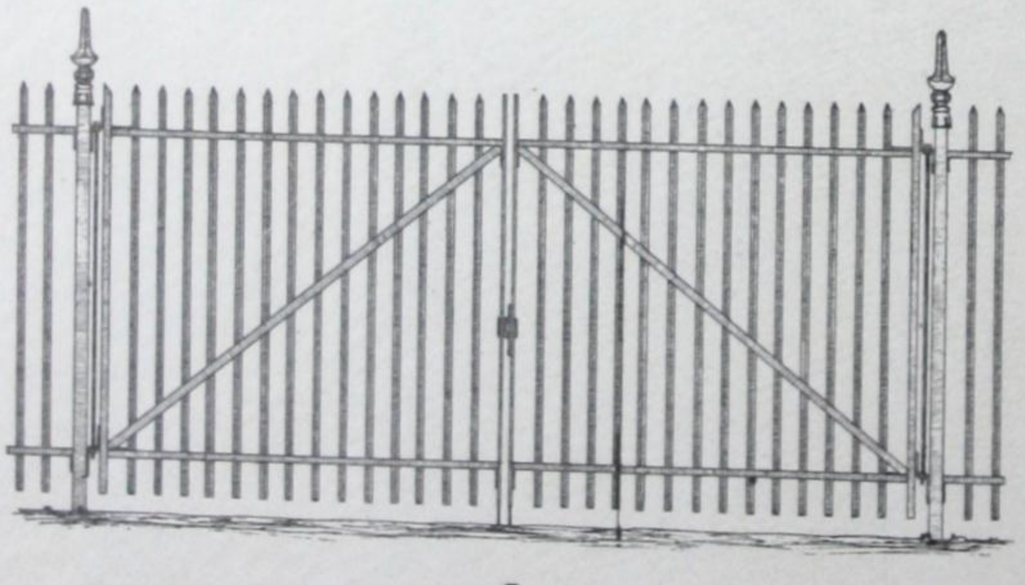
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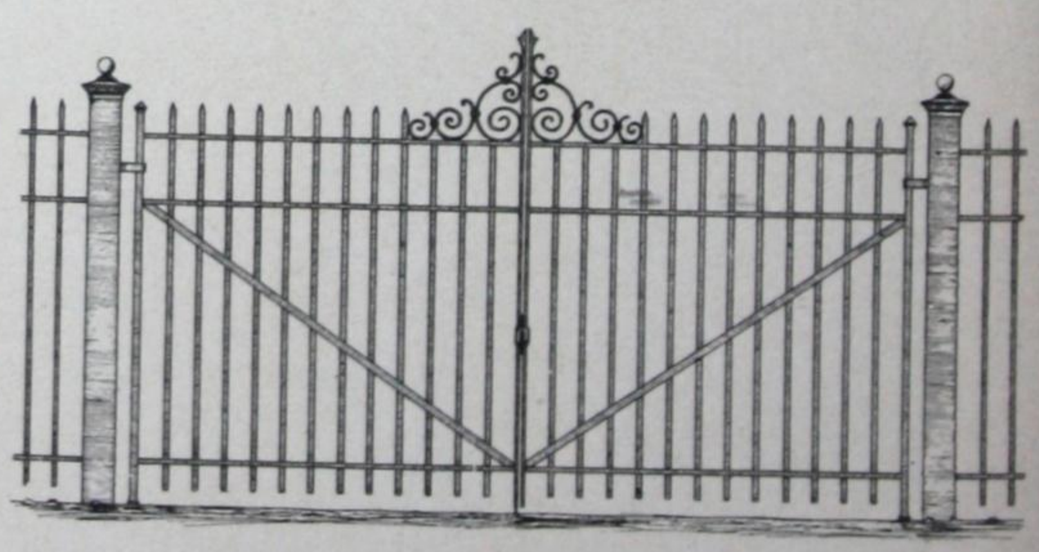
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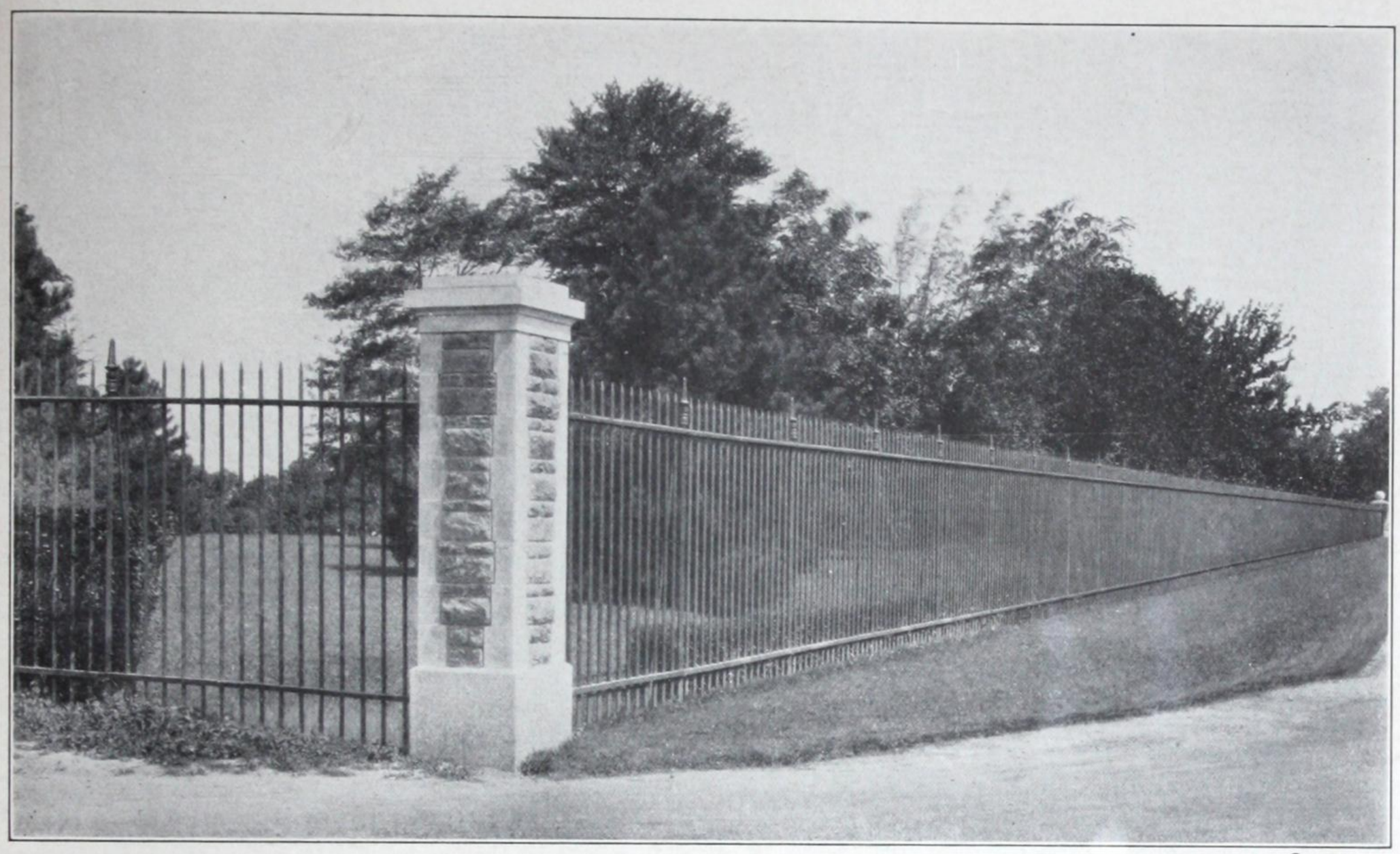


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8

Gate suggestions that will be helpful in making a selection of design.



Two miles of this eight-foot picket fence surrounds the estate of Mr. E. T. Stotesbury, Whitemarsh, Pa.
It is Design No. 4.

The Iron Picket Fence

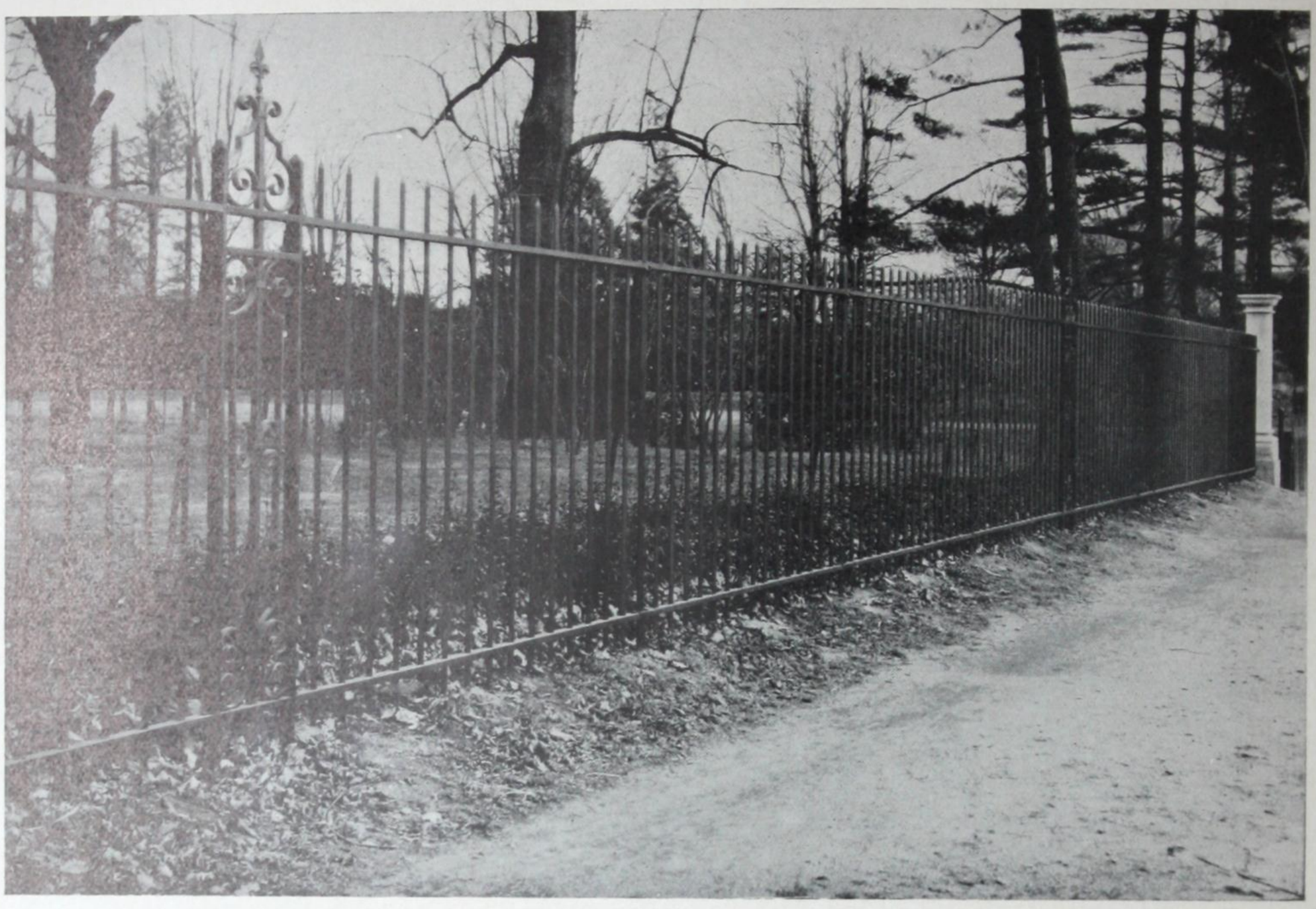
is the oldest of all metal fences, with a distinguished ancestry dating back to the seventeenth and eighteenth centuries when Flemish, French and English iron craftsmanship was at its brilliant height.

In England, picket fence erected in the seventeenth century is still in service.

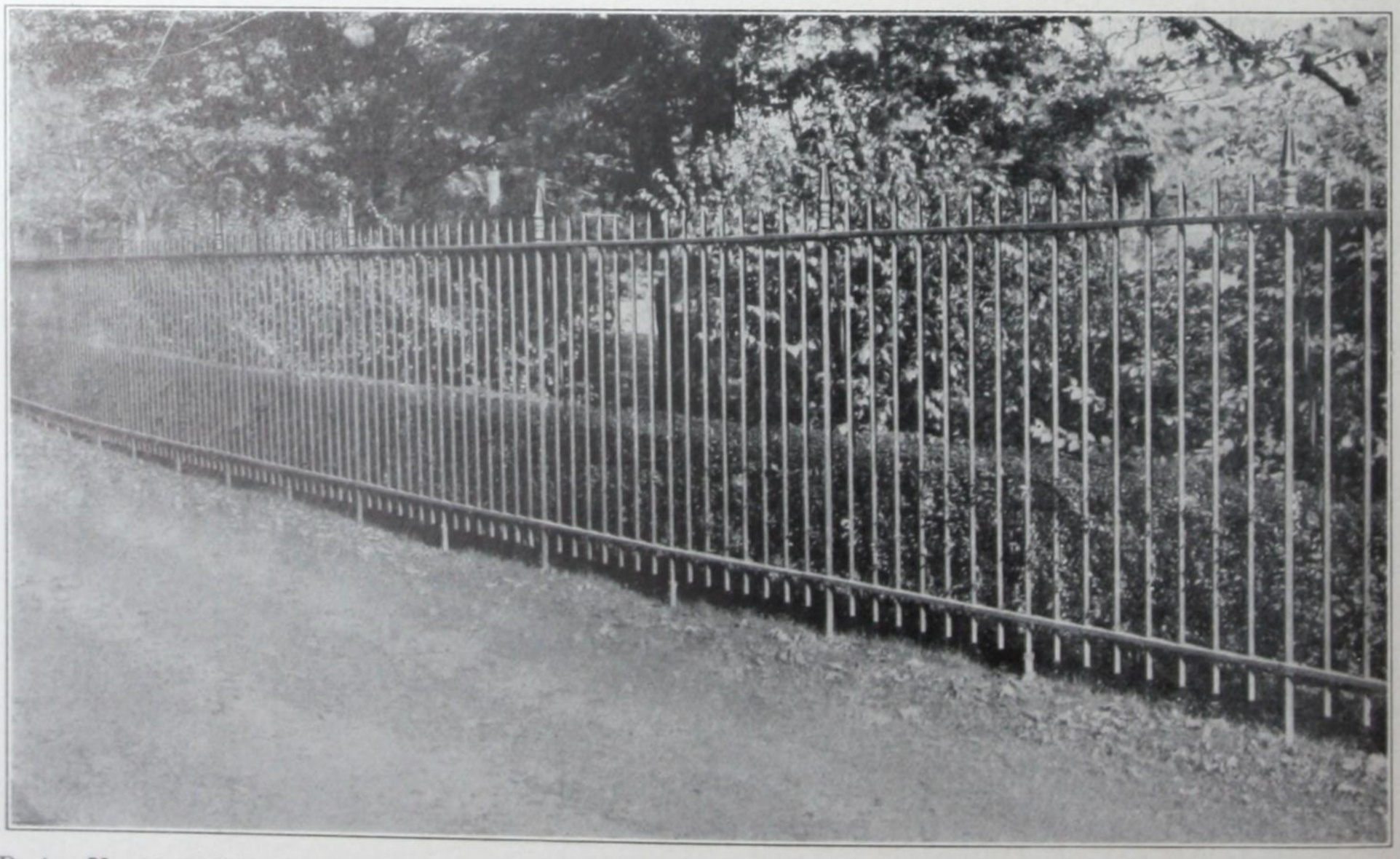
Wayne Picket Fence is made with all the care of the old masters. It will endure throughout the years, beautifying and protecting the property it surrounds.

Wayne Picket Fence is made in many heights and weights, with ornamentation as desired. It is designed to be erected with all posts set in concrete foundations. The illustrations show a few of our many installations. Designs to meet individual requirements will be gladly submitted.

IRON PICKET FENCES

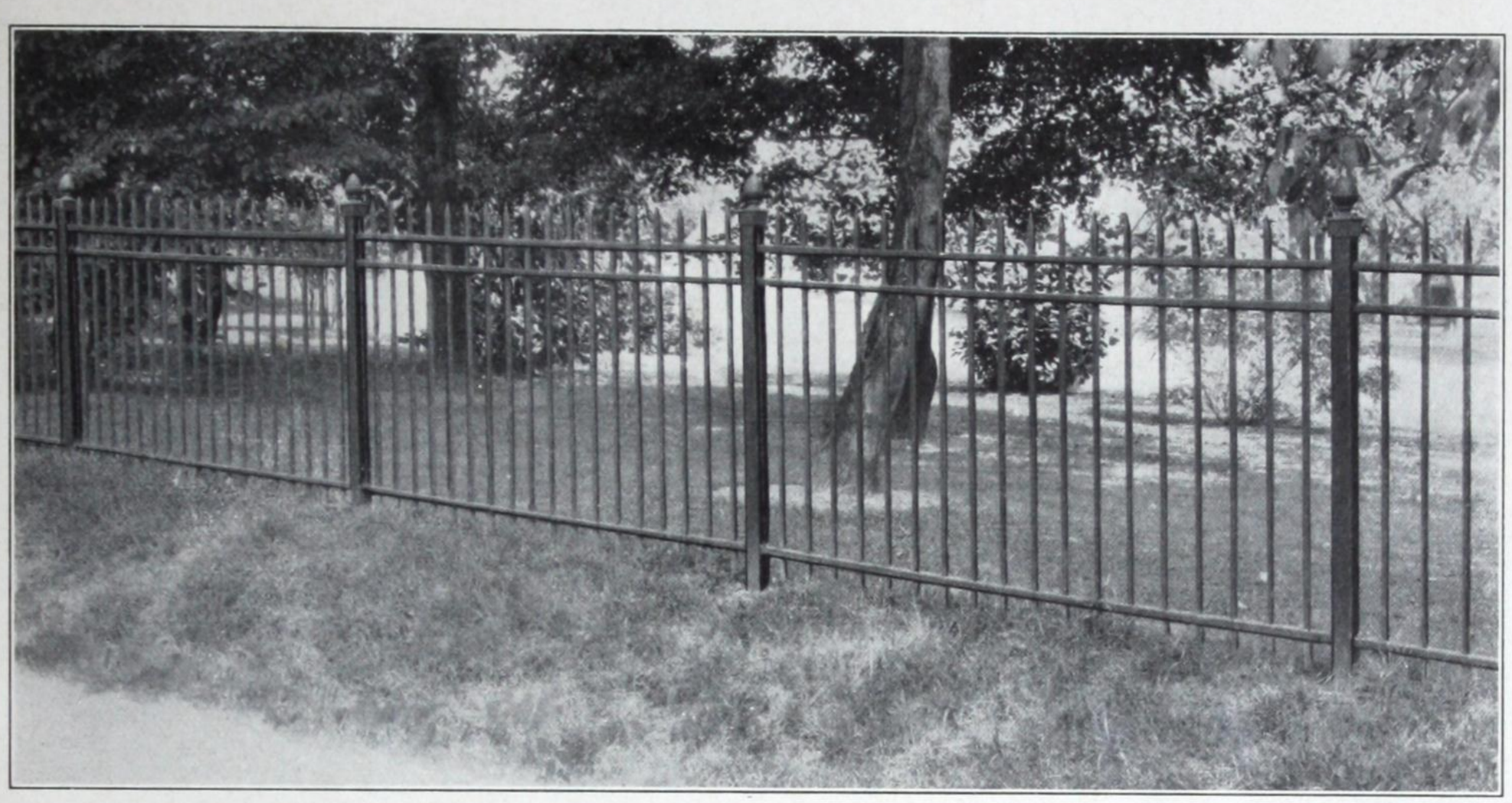


The beautiful decorative panels inserted in this six-foot high picket fence give it a pleasing distinctiveness. Design No. 8, on the estate of Mr. George DeB. Keim, Edgewater Park, N. J.

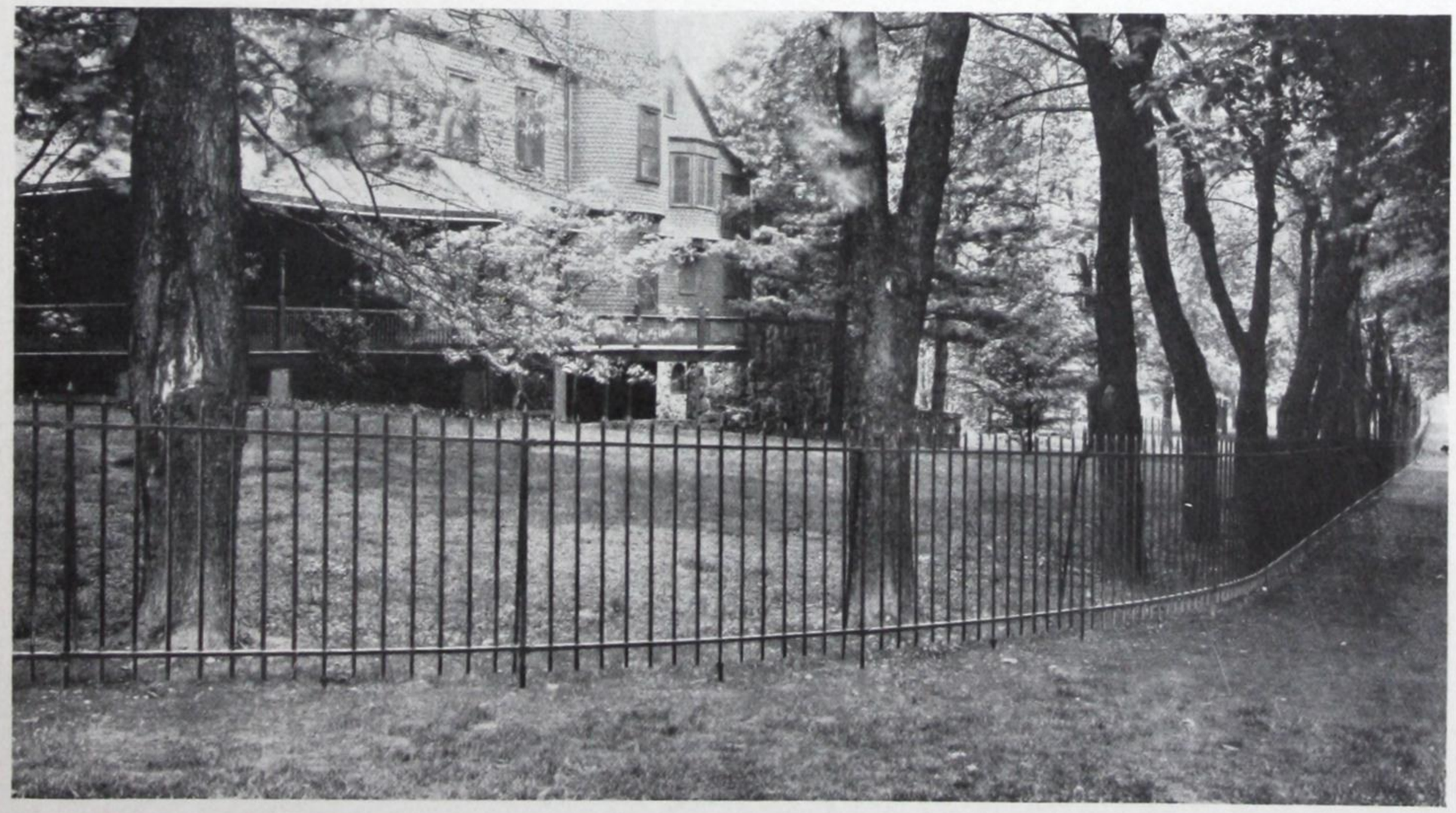


Design No. 13—6 feet 6 inches high with ¾-inch square pickets and posts with spear-point tops—is a most popular design. The illustration shows this fence on the property of the Misses Brill, Merion, Pa.

IRON PICKET FENCES

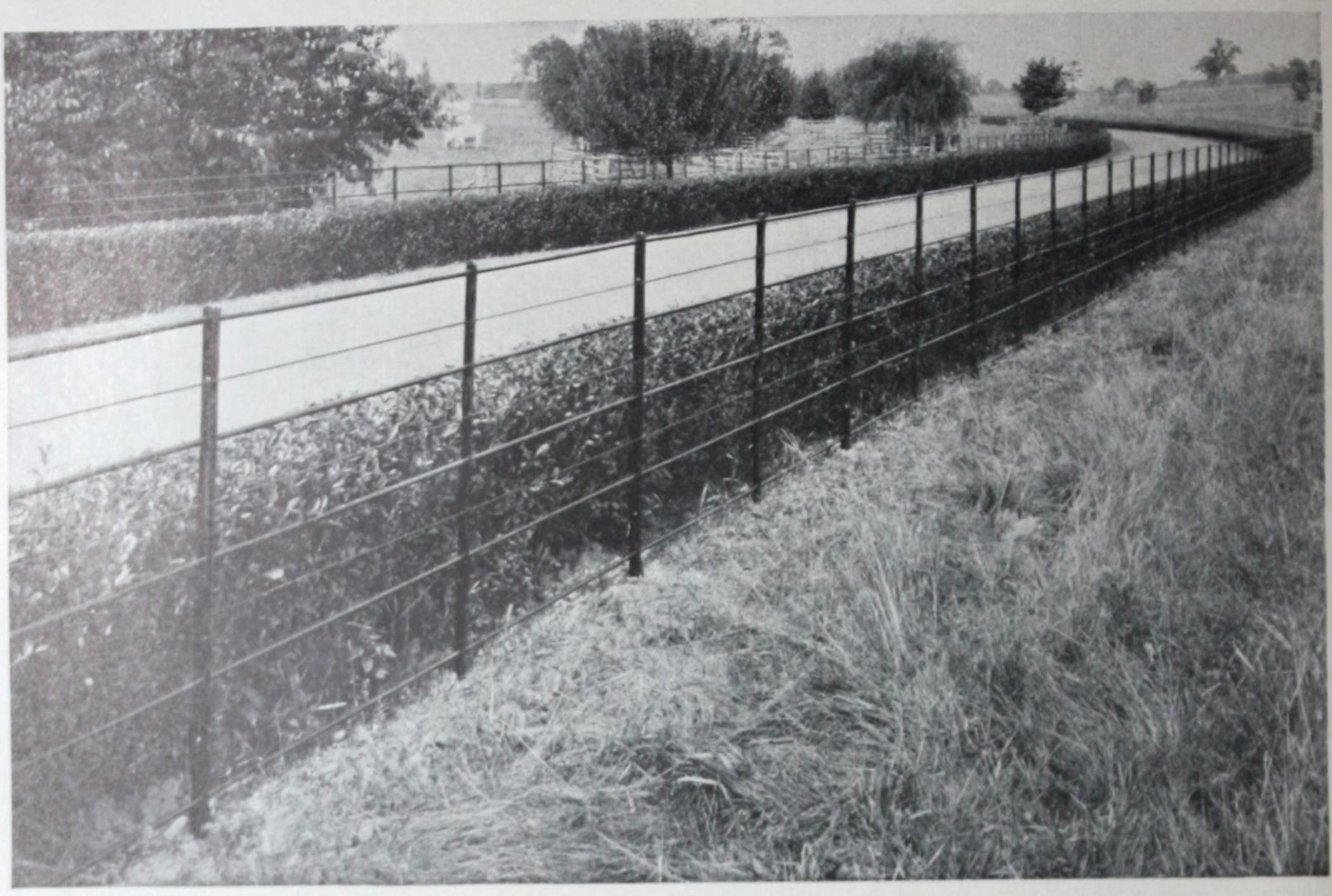


Many will admire the rugged characteristics of this sturdy picket fence, Design No. 316. It is 5 feet high with I-beam posts. Estate of Mr. John G. Pew, Moylan, Pa.

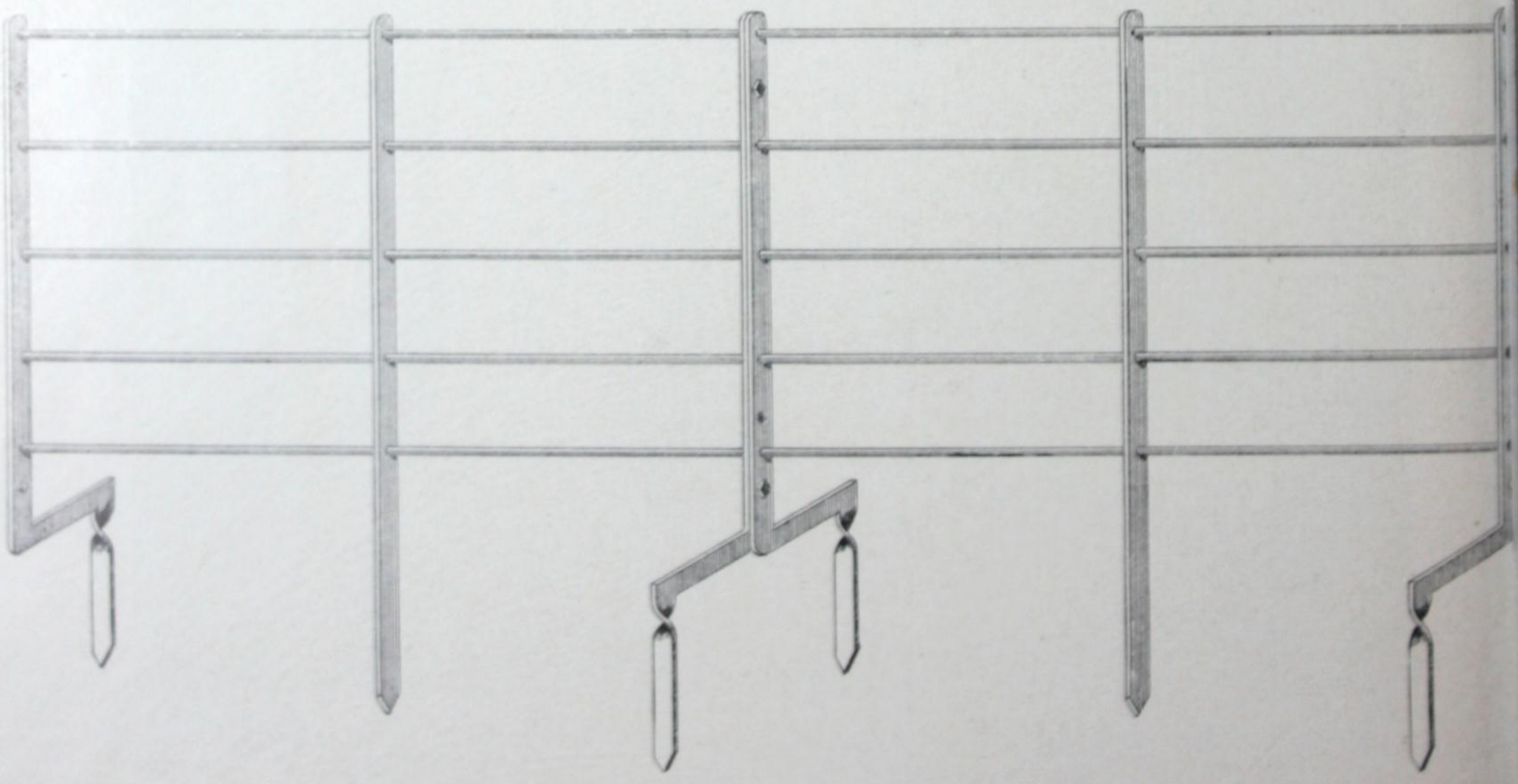


Design No. 289—5-foot high iron picket fence at the home of Mr. Henry Mather Warren, Devon, Pa.

IRON ENGLISH HURDLE FENCE



Cables stretched between the bars of this Iron English Hurdle Fence protect the hedge from cattle.
A long stretch along the drive of Mr. Robert L. Montgomery's place, Ithan, Pa.



Standard panel 6 feet 6 inches long by 4 feet high. Vertical members 1¼ inches by $\frac{5}{16}$ inch.
Horizontal bars $\frac{5}{8}$ inch round. Gate to match, shown on page 16.



Ornamental porch and stair rails designed for Mr. Wm. McKeever, Wayne, Pa.

Special Ornamental Iron Work

Naturally, with designers and craftsmen skilled in the making of fine, ornamental gates and fences, we are in a position to produce special work, such as porch rails, stair rails, grille work, etc.

Inquiries on this type of work are solicited. Designs and quotations will be gladly submitted.

Wayne Chain Link Fences For Property Protection

THERE must be no halfway measure in the quality of a chain link fence if it is to give the property protection for which it is purchased.

•

Wayne Chain Link Fences—whether on residential, institutional or industrial property—give maximum and economical service, because they are a strictly quality product. They are strong, will give greatest number of years use. They protect property.

•

As the buyer you are interested in this quality, the practicability of the fence and the character of the organization offering its services to you.

•

Wayne Chain Link Fences are made of the most durable copper bearing steel wire woven in a diagonal mesh, cleaned and coated by the Hot Spelter Process with a thick and uniform coating of pure zinc. This method insures maximum life, eliminating periodical painting, and reducing maintenance cost to a minimum.

•

The entire frame-work is copper-bearing steel, galvanized by the same process, and so the construction of a Wayne Chain Link Fence begins with materials that experience shows will give the most dependable service.

•

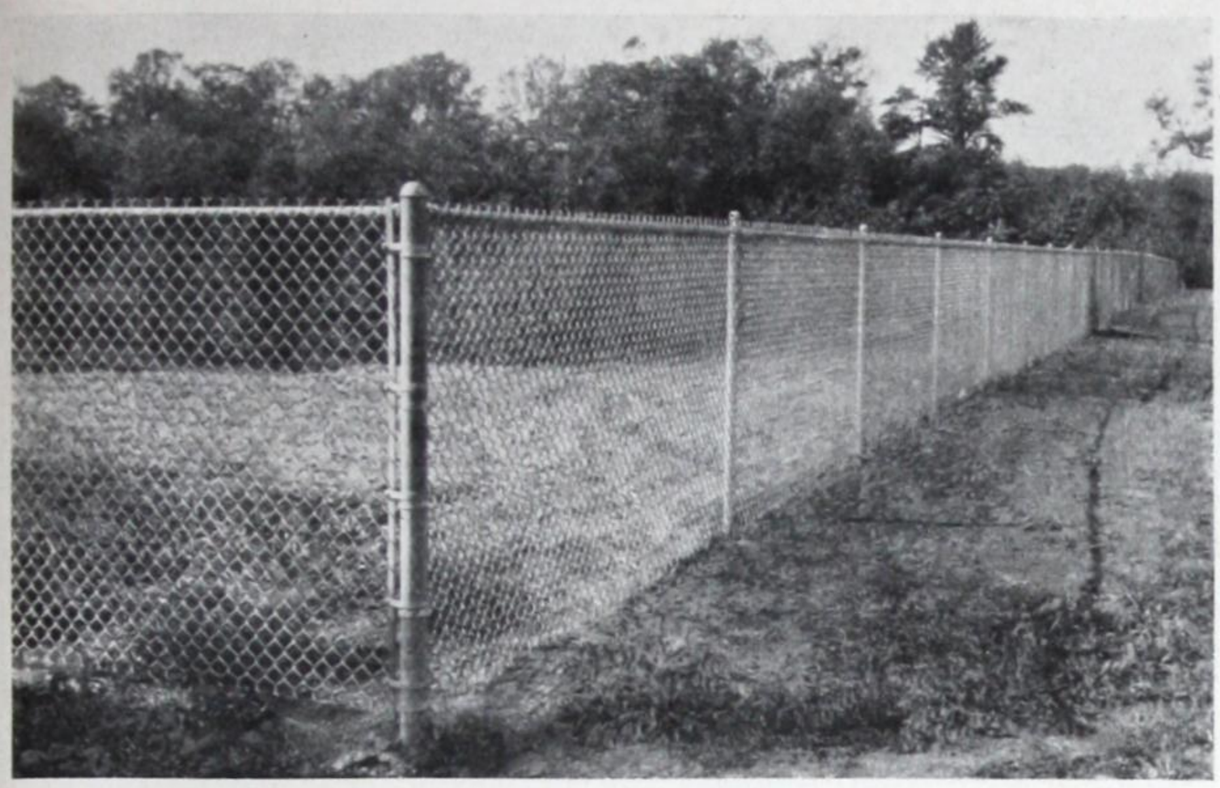
Our 40 years' experience in the design, construction and erection of fences, gives you a highly specialized service by an organization capable of solving any fencing problem.

•

Wayne Chain Link Fence is designed to be erected with all posts set in concrete foundations. This is the only proper way to erect fence because this method provides a permanent and lasting job, maintaining true alignment indefinitely.

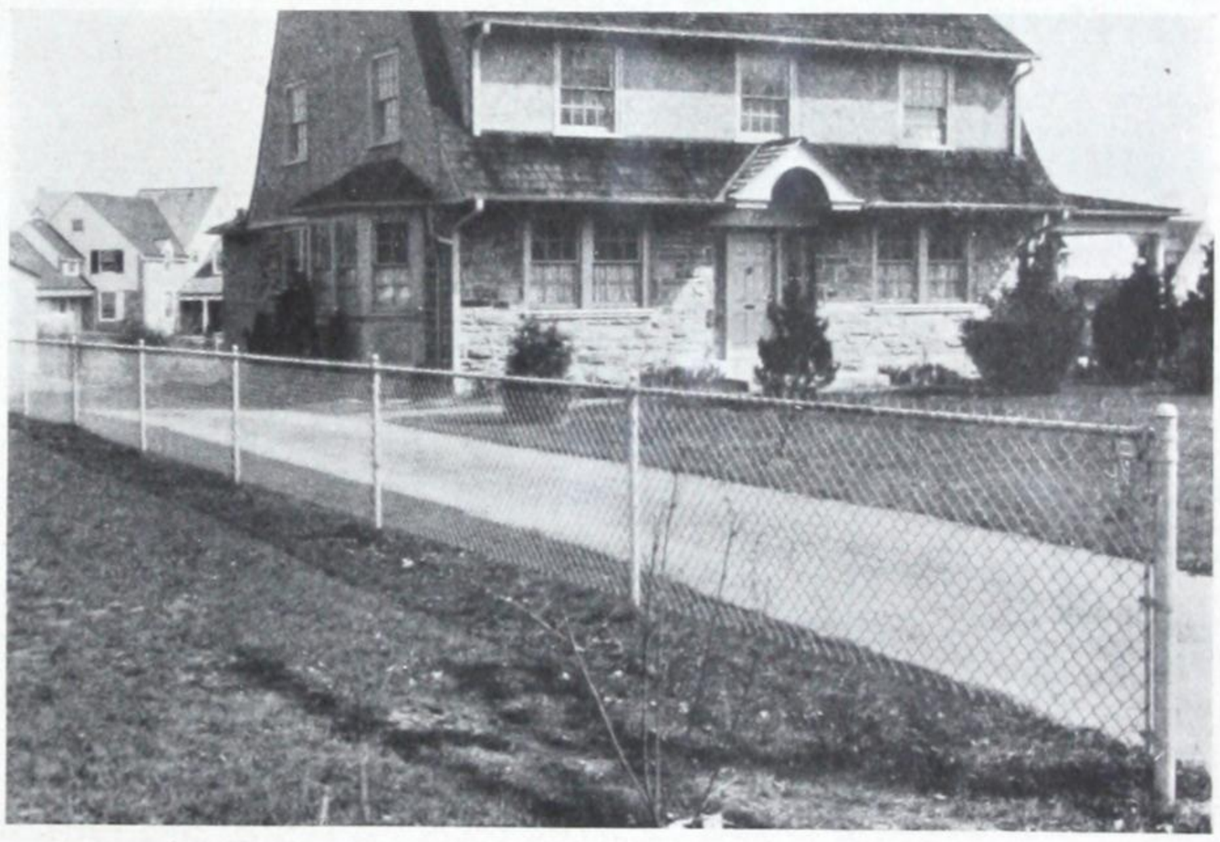
•

In this catalog are shown standard types of chain link fence. Designs for special requirements will be submitted on request.

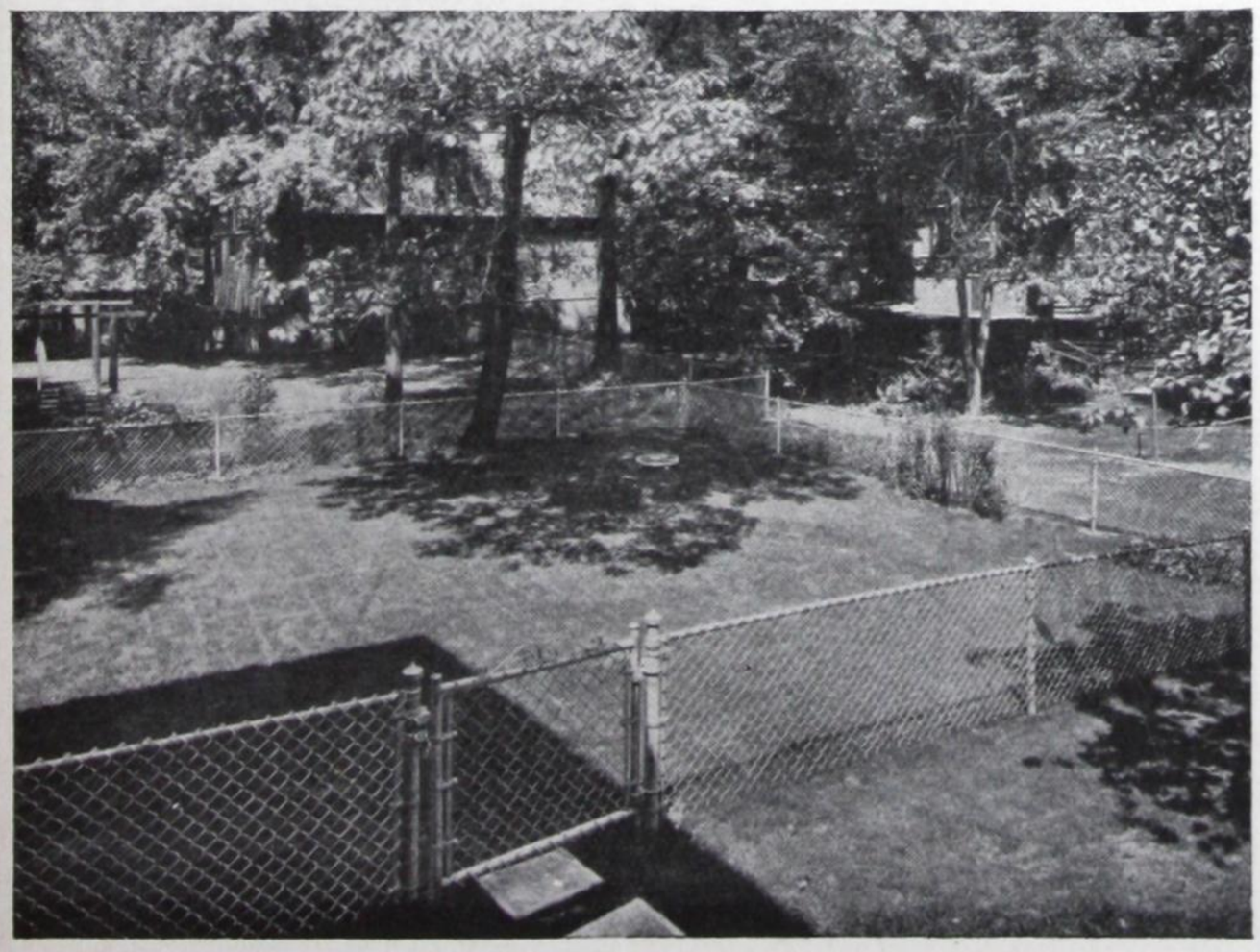


Wayne Chain Link Fence for Residences and Industrial Properties

This five-foot chain link fence with top rail is very popular for dividing lines, enclosures, etc., on residential estates. The fence shown is on the grounds of Mr. William Jay Turner, Germantown, Philadelphia.

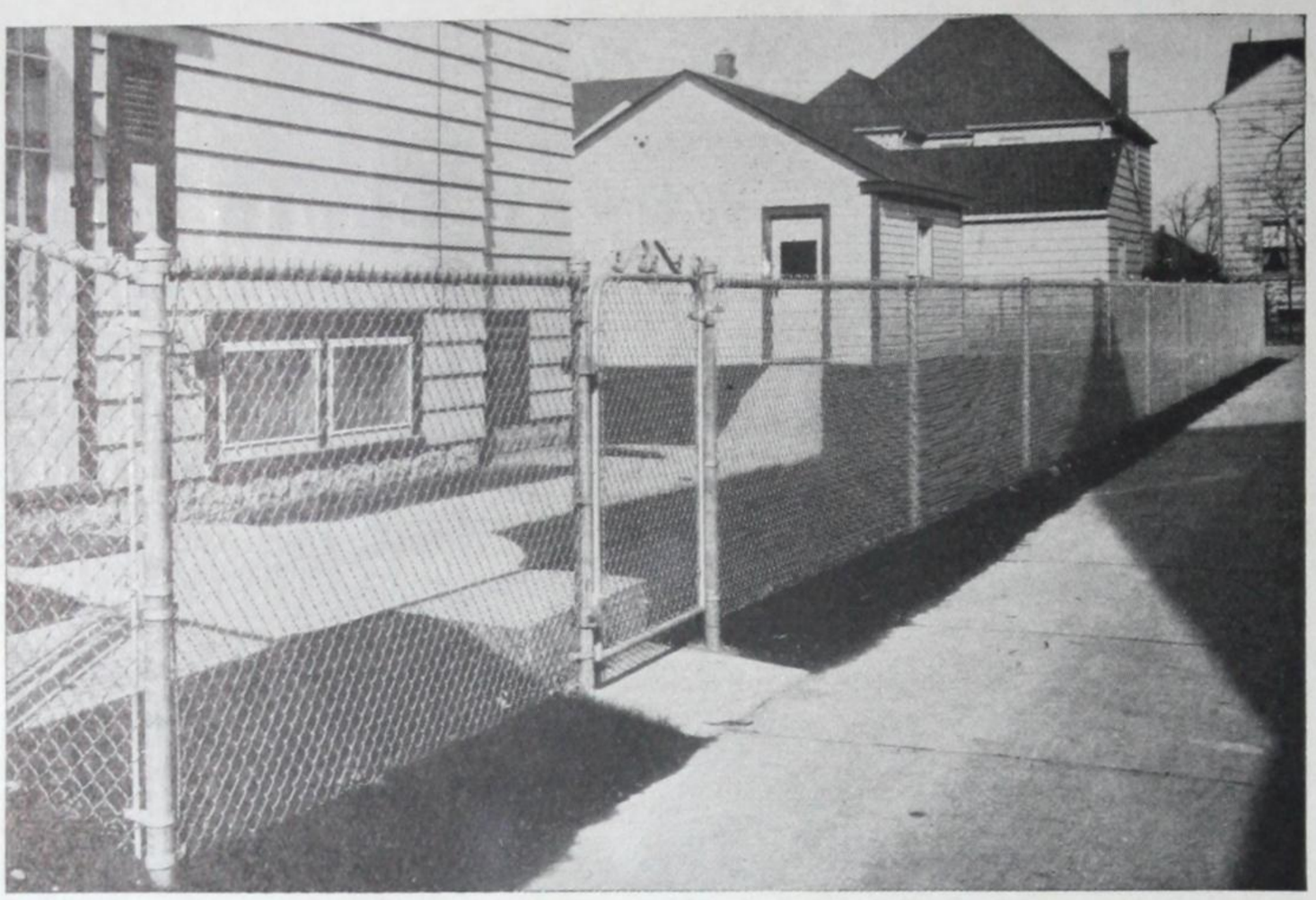


Four-foot chain link fences with top rails are strong, neat in appearance, inexpensive and are very popular for residential use—as shown in the illustration. They not only mark property lines, but are also a safeguard in keeping children off the highways and other forbidden places.



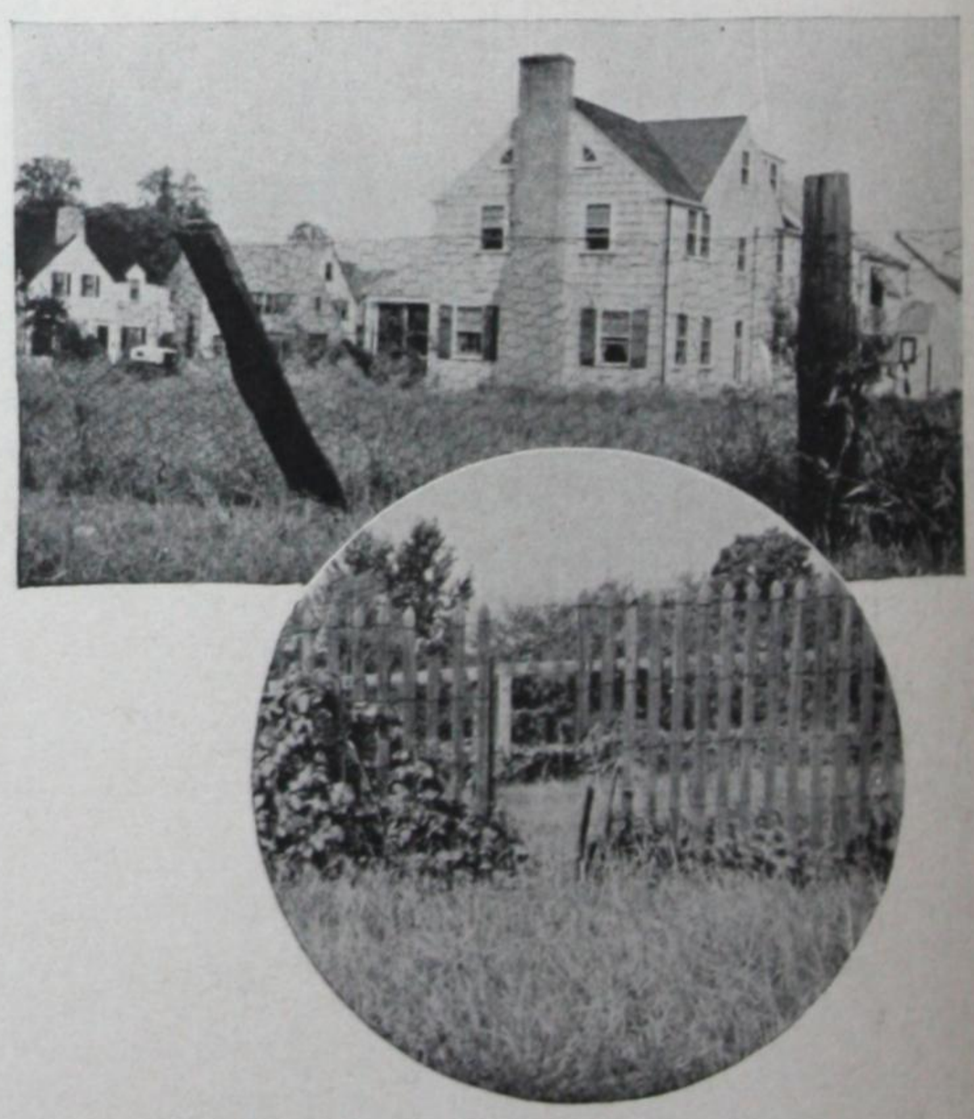
This type of Wayne Fence will dress your property modernly. At the same time, in a friendly manner, it protects your place from intruders and keeps your children from straying into danger.

CHAIN LINK FENCES



Once erected, a Wayne Chain Link Fence gives years of service without painting or other upkeep expense.

Your home . . . surrounded by a Wayne Fence . . . becomes in fact as well as in theory . . . yours to its very boundaries. Behind a fence, your flowers, shrubs, lawns and gardens are safe and secure from the thoughtless depredations of playing children, from the damage by dogs, vandals and corner cutting pedestrians. And while it keeps trespassers out, it keeps your own children and pets from wandering out into the dangers of street traffic.

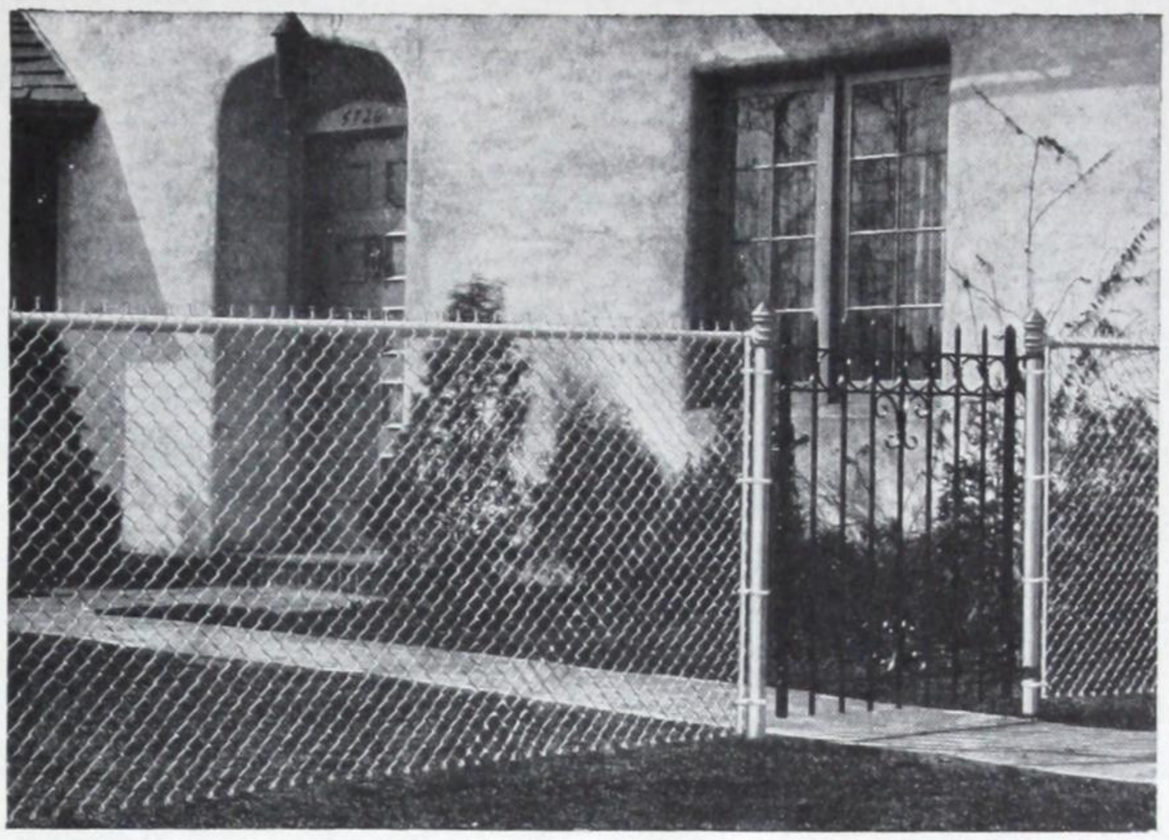


Poorly constructed fences often deteriorate before one realizes it. Contrast the two examples at the right with the sturdy, permanent Wayne Fence above.

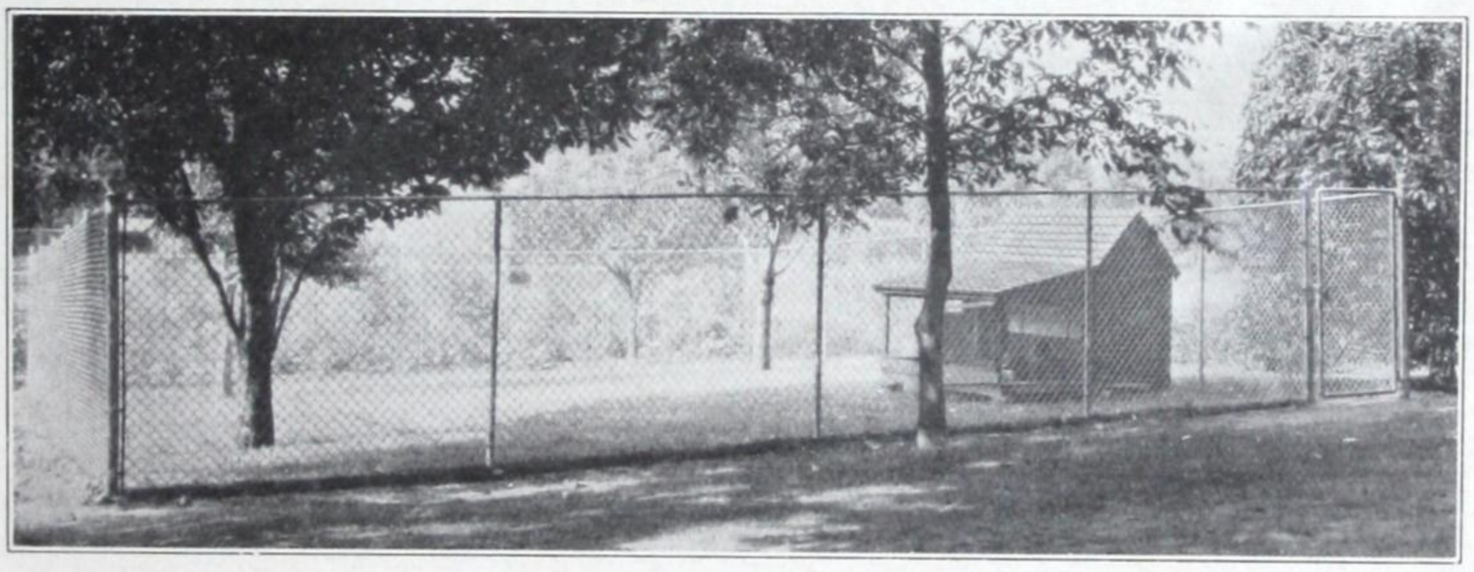
All posts are set in concrete bases to insure permanent alignment.

Specifications and quotations furnished without obligation.

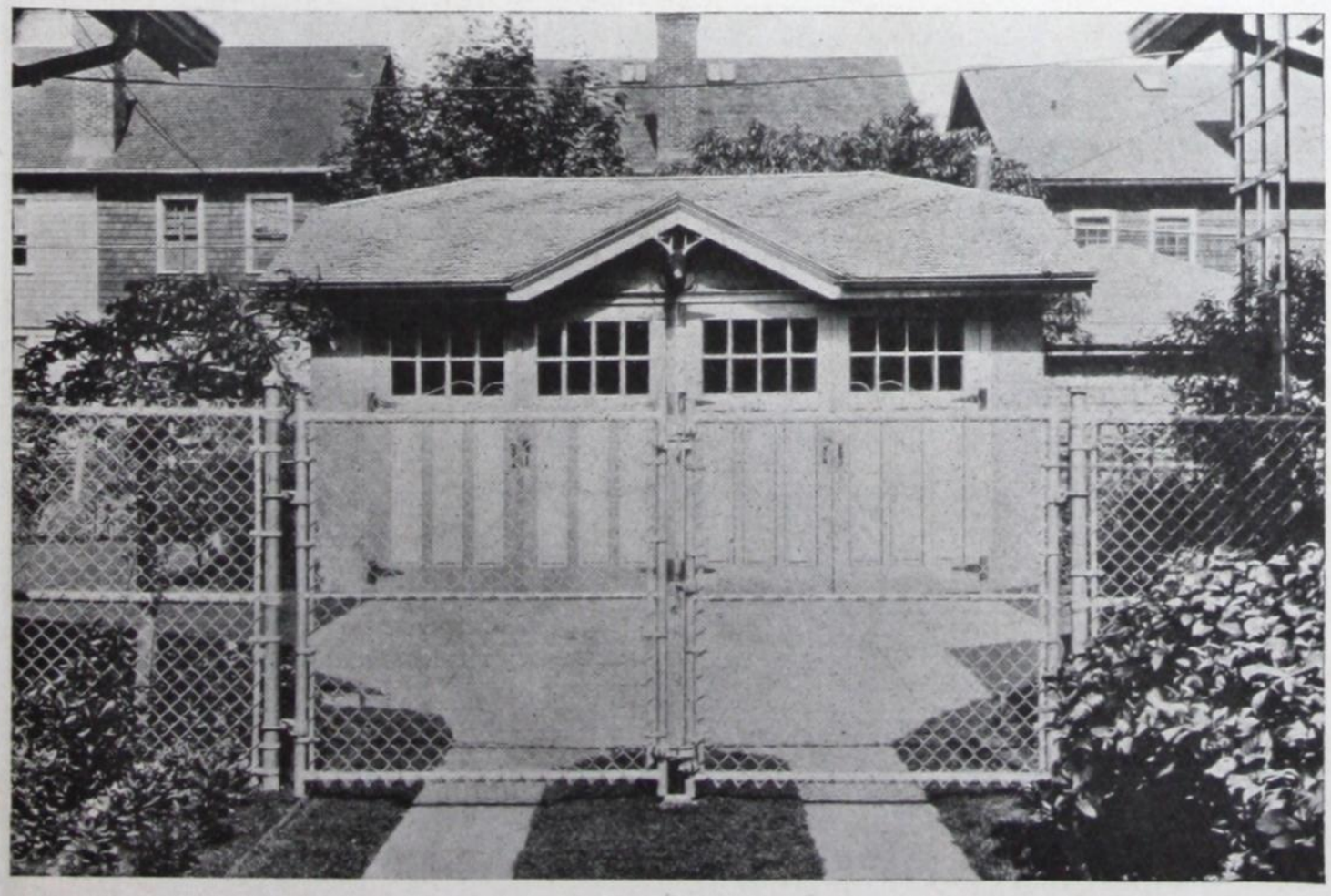
CHAIN LINK FENCES



A sign doesn't mean a thing in the life of a trespasser. If your property provides a convenient short-cut, dumping place or neighborhood playground, there's only one effective protection—a strong Wayne Fence.



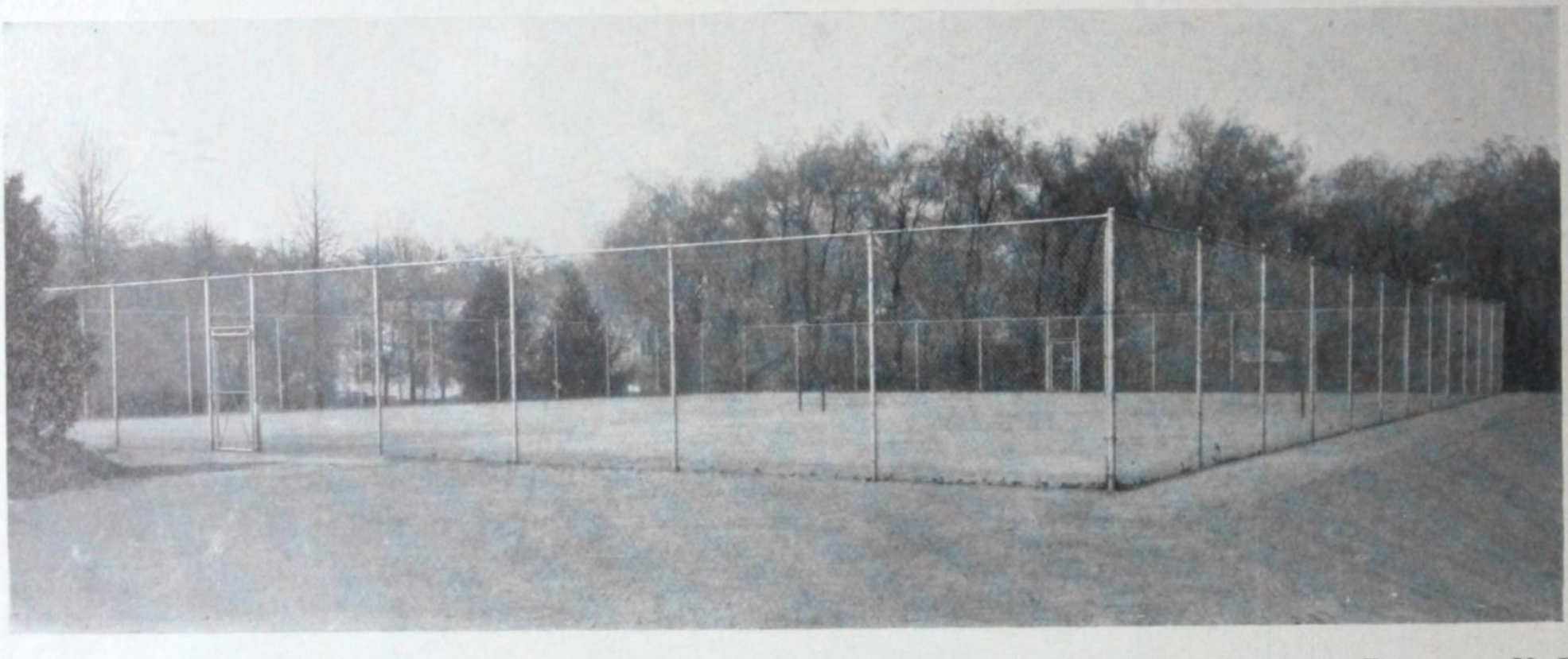
Chain link dog kennel enclosure on the estate of Mr. John T. Windrim, Devon, Pa.



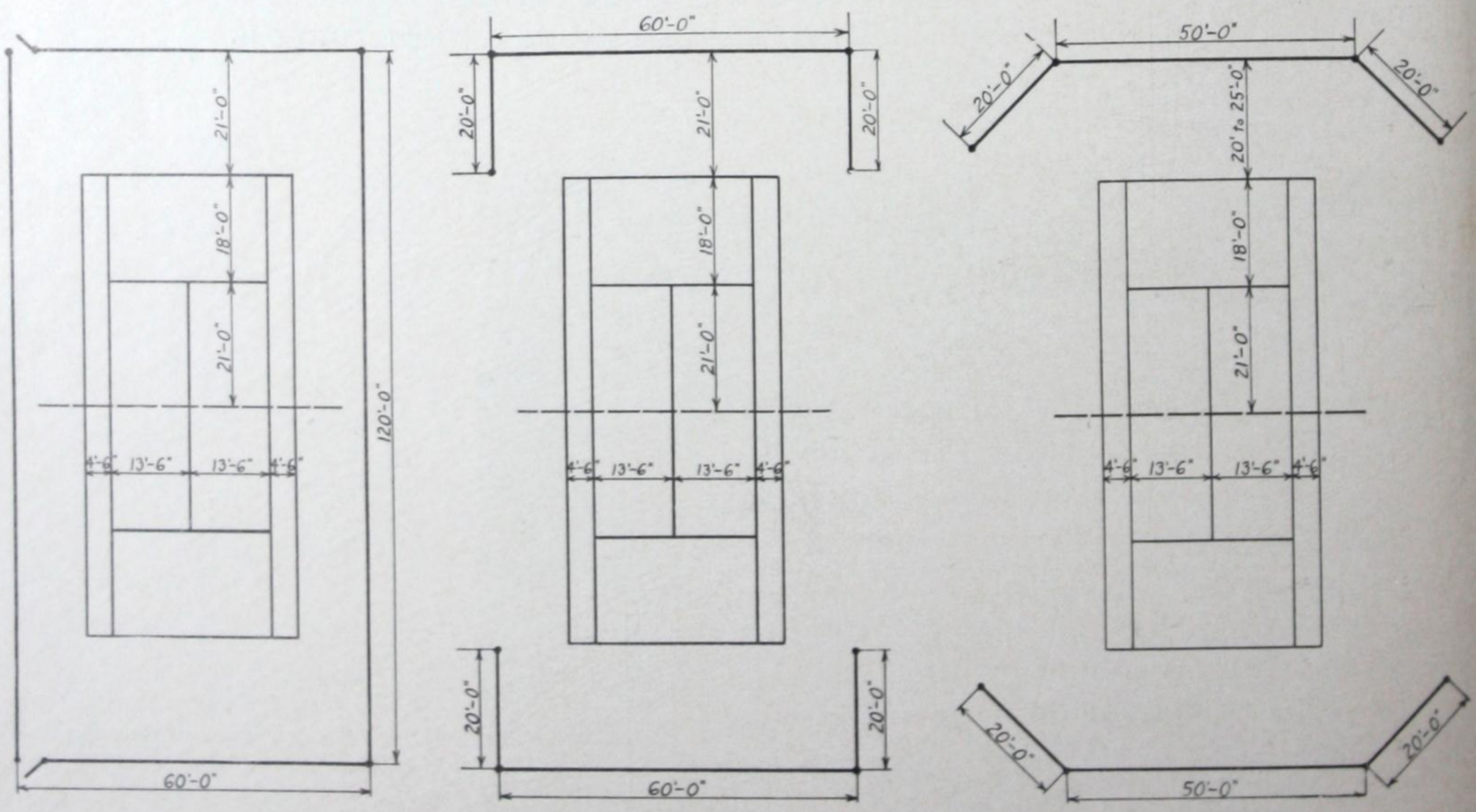
We also furnish Poultry Yards, Pigeon Cotes, Garden Enclosures, Baseball Backstops, Cages, Interior Wire Partitions of Chain Link Fabric or Poultry Netting.

Wayne Chain Link or Poultry Netting Tennis Court Enclosures

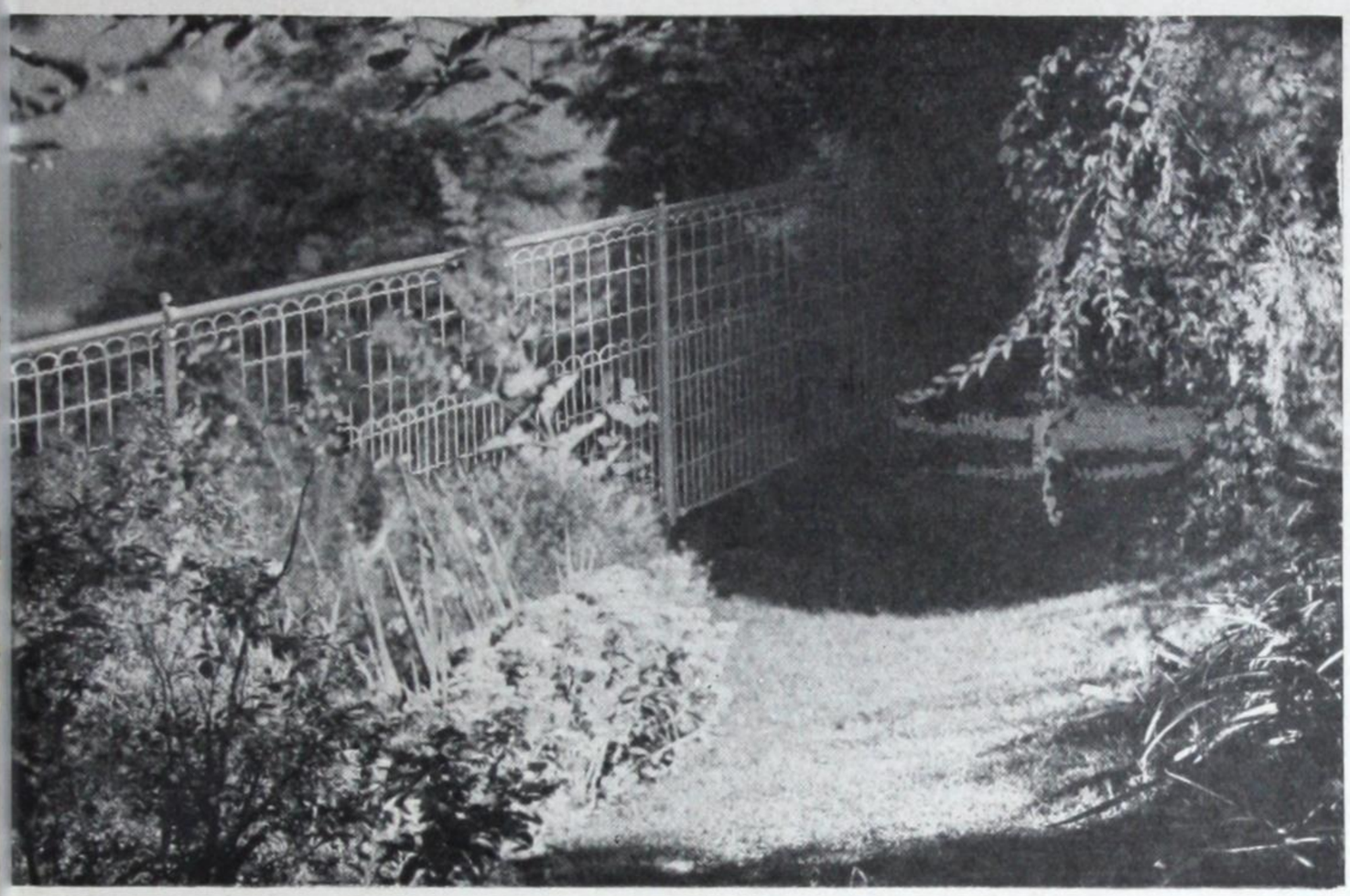
will add immeasurably to the pleasure of playing. Made of the substantial material as indicated in the various specifications, they will give many years' service. They are neat, harmonizing with surroundings. Many beautiful estates, schools and colleges have Wayne Tennis Court Enclosures.



Permanency and neatness distinguish this tennis court enclosure erected for Princeton University, Princeton, N. J.



Three suggested layouts of tennis court enclosures are shown here.

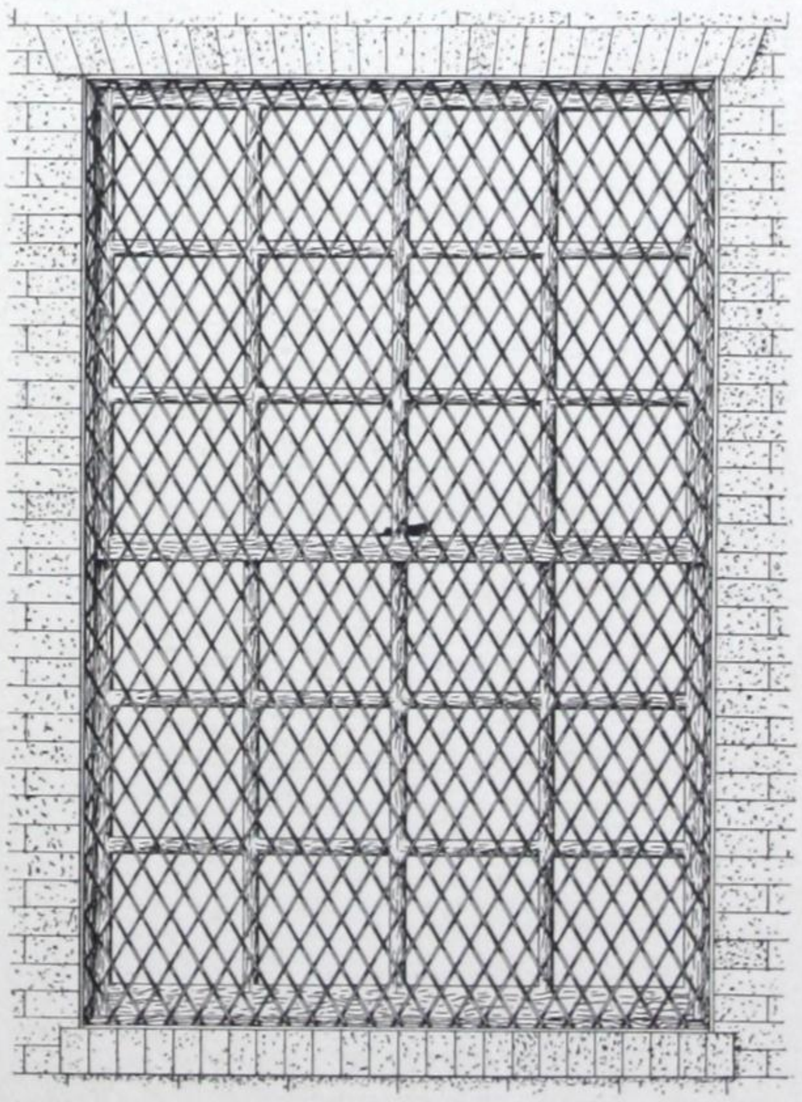


Wayne Farm and Lawn Fence

By the use of tubular end posts with diagonal tubular bracings, this inexpensive fence is kept taut and neat in appearance. An effective barrier against animals and poultry.

Wayne Woven Wire Guards

One of the specialties of the Wayne Iron Works is woven wire work. Window guards, such as shown here, are made with either square or diamond mesh. The usual size of mesh varies from 1 inch to 2 inches and the size of wire from 6 to 14. The frames may be of either round or channel iron.

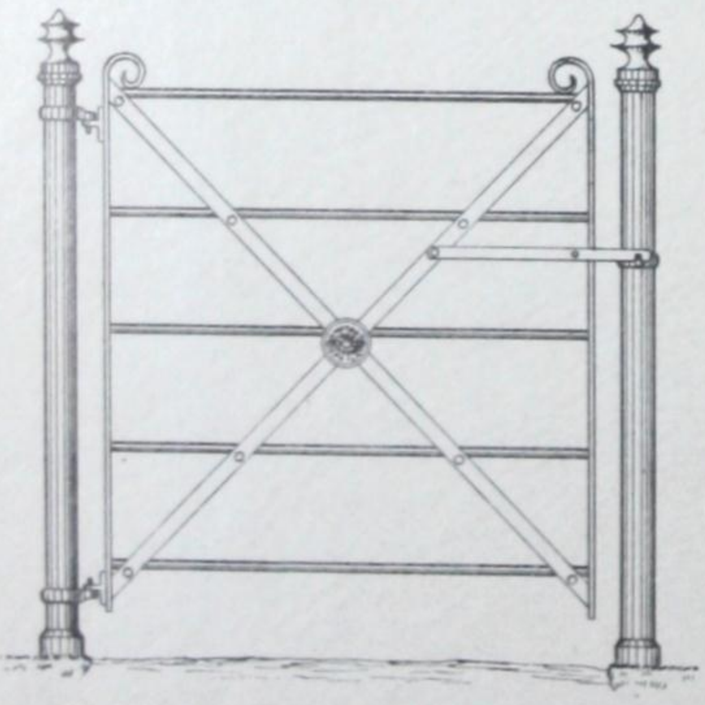


ENGLISH HURDLE FENCE

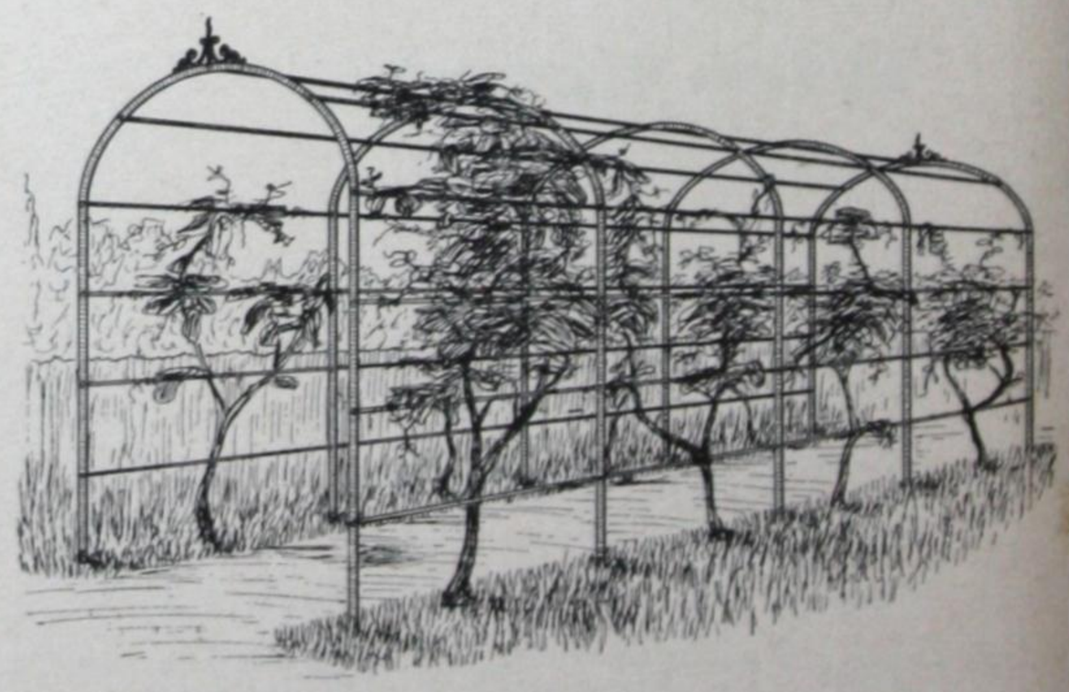
is an attractive, durable and inexpensive iron fence suitable for rural properties. In erection, no digging is required, as the posts are driven into the ground, making the fence rigid. The standard fence is 4 feet high, has five bars and made in panels 6 feet 6 inches long, as shown on page 8. This construction makes it easy to take down and re-erect without the aid of an expert. We have erected many miles of hurdle fence during the past few years.



A tree guard made of standard hurdle panels.



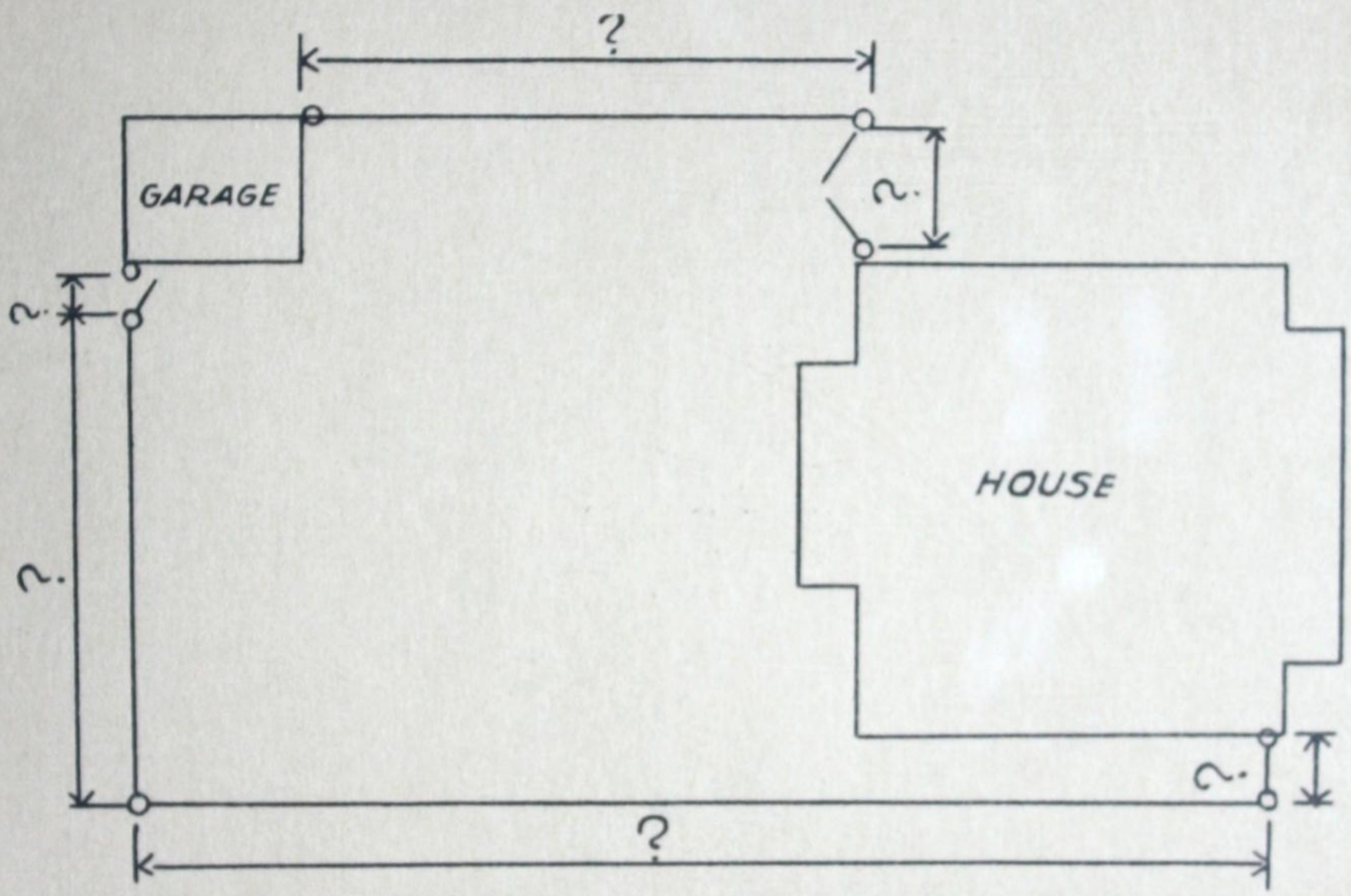
English Hurdle Gate for use with Hurdle Fence, page 8.



Arched arbor for vines, made of hurdle fence material.

How to Order Complete Fence . . .

1. Make a diagram of the property to be fenced, showing dimensions, location of end, corner and gate posts, and any buildings that may form part of the enclosure.



2. Specify fence by style number. Indicate height of fence desired.

3. Total number of feet of fence required.

4. Number required each of (a) End Posts, (b) Corner Posts, (c) Gate Posts.

5. Gates required, width of opening, and whether Walk, Single Drive or Double Drive.

Mail Inquiries to

WAYNE IRON WORKS · WAYNE · PA.

or Phone Wayne 1124

WAYNE IRON WORKS

WAYNE, PA.

APPLICATION FOR
HOME OWNERS' CATALOGS

Fill in completely and mail to: F. W. DODGE CORPORATION, 1321 Arch Street, Philadelphia, Pa.

Name ..... Occupation .....

Present Residence Address..... .....Phone Number.....
(Street) (City) (State)

Present Business Address ....Phone Number.....
(Street) (City) (State)

Address of projected construction.....
(Lot or Street No) (Street) (City) (State)

Who is preparing your plans?.....
(Name) (Address)

How far have your architectural plans progressed?.....

When will actual construction work start?.....

What is the name and address of your general contractor? (if decided) .....
(Name)

.....
(Address)

If work is now under way state how far work has advanced .....

What is the estimated cost of the project (not including cost of property and furnishings)?.....

Have you made arrangements for your construction loan, mortgages, etc.? .....

If a new residence is to be constructed please fill out the following

Do you own the lot on which the new house will be built? .....Give size.....x.....

If not, when do you plan to purchase a lot?.....

Do you plan to occupy the house yourself?.....

Please give the following information regarding the details of the new house:

Number of rooms.....
Number of baths.....
Outside dimensions .....x.....

Number of Stories .....
Will there be a garage.....
Will there be a basement.....

Type of exterior walls to be used
Frame..... Stucco..... Brick.... Stone....
List any other type here.....

If an addition to an existing residence is to be constructed please fill out the following

Do you plan to occupy the house yourself when the addition is completed? .....

Please give the following information regarding the details of the addition:

Outside dimensions of addition.....x.....
Number of Stories.....
Will there be a basement?.....
Number of baths to be added.....

Will there be a garage?.....
Number and type of rooms to be added .....
.....

Type of exterior walls to be used for addition: Frame..... Stucco.....
Brick..... Stone..... List any other type here .....

If an alteration is to be made to an existing residence please fill out the following

Do you plan to occupy the house yourself when the alteration is completed? .....

Please check the trades that will be involved in constructing the alteration:

.....Air Conditioning
.....Brick Masonry
.....Carpenter
.....Concrete Masonry
.....Electric
.....Excavating
.....Finished Flooring
.....Glazing
.....Heating
.....Interior Decorating
.....Lathing
.....Millwork
.....Ornamental Iron or Bronze
.....Painting
.....Plastering
.....Plumbing
.....Roofing
.....Sheet Metal
.....Stone Masonry
.....Tile

Signed .....

Date.....

Use reverse side for any additional information you may care to give.

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.....Plumbing
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.....Stone Masonry
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API INTERNATIONAL

CCA

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HOME OWNERS' CATALOGS

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